



Macworld

www.macworld.com | May 2010

I'm a PC

The Secret Truth about
Windows and Macs

HOW TO

Run Windows Apps
on Your Mac

Share Files and
More with PCs



PLUS

System Preferences Tweaks
Every Mac User Should Know

\$6.99 U.S.





You need
Outlook

You love
iMovie

Stop choosing. Start doing - FASTER!

"Parallels is now the best choice again. In my tests, it proved to be both faster, and more capable of handling the heavy-duty visual effects in Windows 7."

- Walt Mossberg, Wall Street Journal

"...the clear winner running each group of tests up to 127% faster than (the leading competitor)."

- MacTech Benchmark 2010

"Parallels lets Mac, Windows peacefully co-exist"

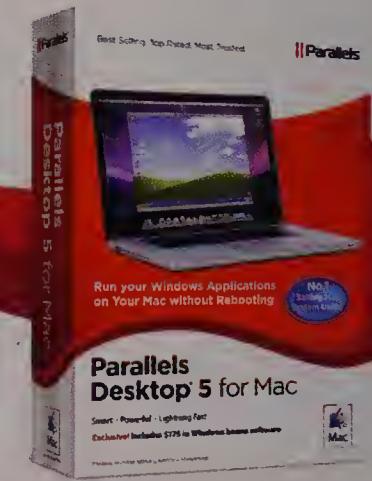
- Mark Kellner, Washington Times

For more reviews and information, please visit parallels.com/macworld

Parallels Desktop 5 for Mac

Faster • Smarter • More Powerful

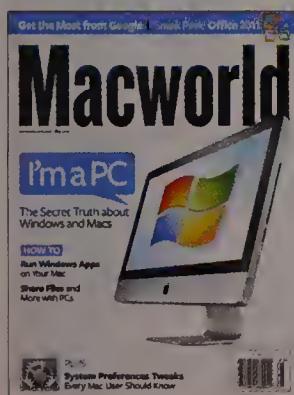
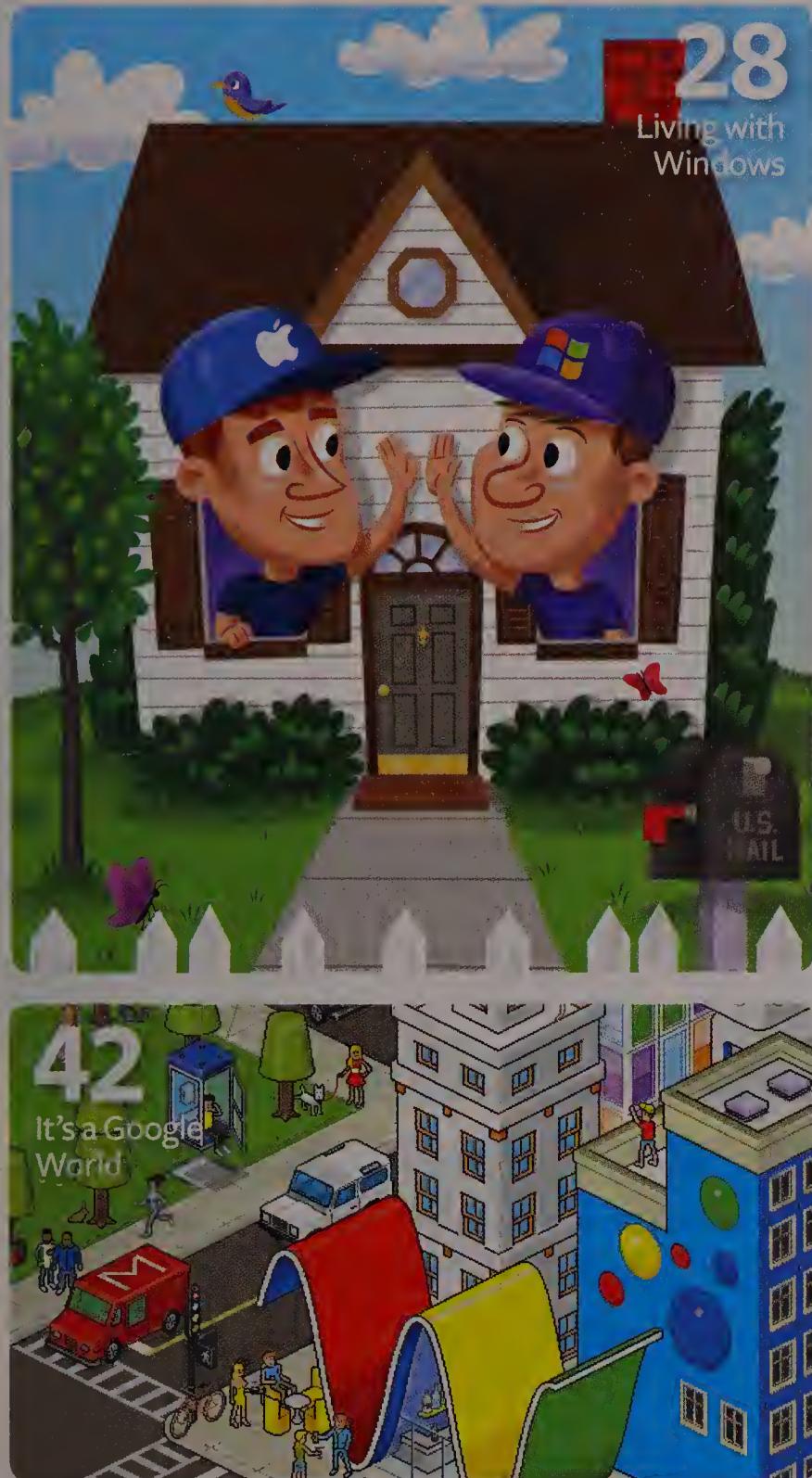
Run Windows applications on your Mac without rebooting



Macworld Reader's Offer \$10 off.* Only \$69.99 until May 31, 2010

*Voucher code **MWPDS5-MDTDO** can be redeemed at parallels.com only. Max 3 versions per customer.

Macworld



On the Cover

Photograph by Peter Belanger

CONTENTS

May 2010

COVER STORY

28 Living with Windows

Share files, drives, and more with PCs, and learn the best way to run Windows on your Mac.

FEATURE

42 It's a Google World

Google may dominate the Internet, but that doesn't mean you can't take what's good and useful from it—and leave the rest behind.

OPINION

5 From the Editor's Desk

Is Microsoft still Apple's archrival, or have we moved on?

10 Feedback

Readers respond.

MAC USER

14 Apple Cleans Up Its Supply Chain

The company continues to audit working conditions at its overseas manufacturers.

15 Follow-up: iMac Screens

16 Spying MacBooks: The Game Is Up

16 Opera Beta: World's Fastest Browser?

PLUS: Hot Stuff 20

18 Mac Gems

Play more media formats on your Mac, save your PDFs down to a more manageable file size, enhance Mail's search function, and more.

IPHONE CENTRAL

22 BlackBerry Maker Frets about Bandwidth Crunch

But is the problem data-hungry smartphones or underperforming cellular networks?

23 3G Limits Getting 86'd

24 Apple Cracks Down on Adult Apps

24 Mobile Navigator Gets Personal

24 iPhone Case Puts You in Control

26 App Guide

Each month, we review the App Store offerings that have caught our eye.

WORKING MAC

52 What's Your Preference?

Make your Mac work the way you do, with these tweaks.

53 Save Time Opening Files**54** PDF Tricks Everyone Should Know**56** A Sneak Peek at Office 2011PLUS: Reviews **58**, Business Center **60**

PLAYLIST

62 Rip Audio Tracks from Your DVDs

Pull the musical content off your DVDs for listening on your iPod or in iTunes.

64 Apple, Google to Steal Amazon's E-book Thunder**65** 'Lost' Found Early on France's iTunesPLUS: Reviews **66**, Hot Stuff **68**

DIGITAL PHOTO

70 Aperture 3 Takes a Cue from iPhoto

Apple's photo-management software gets curves, and a whole lot more.

71 Image Capture Gets Smarter**72** How to Shoot Infrared Photos**73** Playing with Time-LapsePLUS: Reviews **74**, Hot Stuff **75**

CREATE

76 Newsletters Sparkle with Pages '09

Add flourish to your personal newsletters by creating them in Pages '09.

77 Proximity Principle Promotes Vibrant Designs**77** Color-Correct Your Video in iMovie**78** Verdana: Not Just Another Pretty FacePLUS: Reviews **80**

HELP DESK

82 Mac OS X Hints

Enable missing services, find exact duplicates in iTunes, reduce iPhoto launch times, and more.

84 Mac 911

Cure the common double-cap, enable Bluetooth sharing in Snow Leopard, Bugs & Fixes, and more.

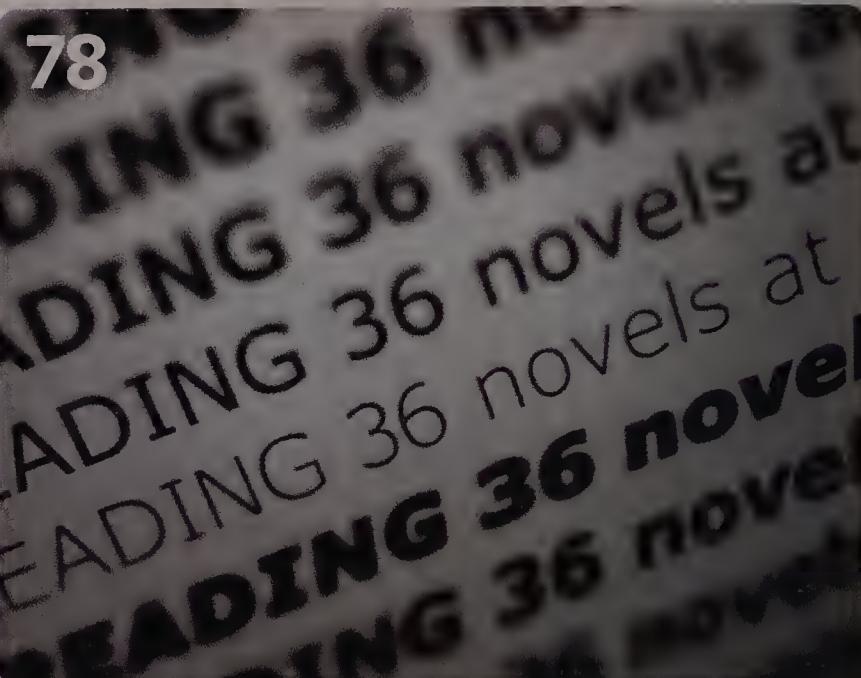
BACK PAGE

96 Spotlight

Expo 2010 has come and gone, and Andy Ihnatko asks: "Can the Mac world's signature event survive?"



Aperture 3

**70****78**

MULTIMEDIA AT MACWORLD.COM

Check out our latest podcasts, slideshows, and videos



Standout iPhone and iPod Accessories

Dan Frakes takes a look at some interesting iPhone and iPod accessories (macworld.com/5892).

We also recommend:

Macworld Video: How to Capture Internet Radio (macworld.com/5893).Macworld Video: Use Dropbox to Sync 1Password Data (macworld.com/5894).Macworld Podcast: Macworld 2010—iPad Roundtable (macworld.com/5895).Macworld Podcast: Quicken Essentials for Mac (macworld.com/5896).



Wondershare®

The software wisdom shared worldwide



All-in-one iPhone/iPod Toolkit for Mac OS X Convert, Transfer, Create



Wondershare iPhoneMate for Mac

- Convert video clips for playback on iPhone
- Convert DVD movies for playback on iPhone
- Create iPhone ringtones from popular audio and video
- Transfer files between iPhone and Mac/iTunes



Wondershare iPod Toolkit for Mac

- Convert video clips for playback on iPod
- Convert DVD movies for playback on iPod
- Transfer files between iPod and Mac/iTunes

Check Out the Deals Now at: www.wondershare.com/mac

40%
OFF

Supported OS:

Mac OS X 10.4 (Tiger) / Mac OS X 10.5 (Leopard)
Mac OS X 10.6 (Snow Leopard)

Wondershare is not responsible for typographical, photographic or other errors. Information is subject to change without notice. Wondershare is registered trademark of Wondershare Software Co., Ltd. Mac, Mac OS, iMac, Macbook, iPod, iPhone are trademarks of Apple Inc. © 2010 Wondershare.com software Co., Ltd. All Rights Reserved.

Duale

The Main Station for Your Transfers & Connections

B

**500
GB**

**USB
2.0**

**FW
800**

Store

500GB of portable drive storage for your digital assets

Sync

Synchronize your iPhone® or iPod® with iTunes®

Transport

Remove drive from dock for on-the-go storage

Charge

Quickly and conveniently charge your iPhone or iPod

Backup

Works with Time Machine™

USB 2.0

Consolidate and connect more devices with integrated USB hub

FW800

Portable hard drive supports high-speed FireWire 800 connection

Organize

Reduce cable clutter and bring harmony to your workspace



Available only at the
Apple Store

© 2010 BUFFALO INC. Buffalo Technology, BUFFALO logo and Dualie logo are either trademarks or registered trademarks of MELO HOLDINGS INC. iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc. "Made for iPod" and "Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. The Apple logo and Apple Store are trademarks of Apple Inc., registered in the U.S. and other countries. The names and logos of other companies mentioned herein belong to their respective owners.

Dual Dock with portable USB 2.0 and FireWire 800 hard drive. Dock your hard drive and iPhone or iPod on one base station. Sync and transfer files while you charge your iPhone or iPod.

BUFFALO
Learn more at BuffaloTech.com

Choosing Sides

Is Microsoft still Apple's archrival, or have we moved on?

Nothing gets the blood of some *Macworld* readers boiling like the appearance of Microsoft on our cover or within our pages. There's a historical animosity there, dating back to the early days of Windows, and a sense among many people that a Mac user is defined by his or her choice not to use Microsoft's dominant operating system.

As someone who once owned a "Windows 95 = Macintosh '87" button or two, I understand the appeal of the Mac-versus-Windows story line. People get to choose sides. You can be a part of the rebel alliance or the evil empire. You can root for the Red Sox or the Yankees. And there was a time when that story was based in reality, especially as the Mac and Apple came perilously close to death in the late nineties.

What Rivalry?

But the Microsoft of the mid-nineties is a distant memory. In the years since, the company has struggled with antitrust cases, completely blown an entire version of the Windows operating system, seen Microsoft Office's dominance threatened by the Web, missed the boat on Web search, and been forced to relinquish its Tech Juggernaut title to Google. For some time now, Microsoft has been visibly struggling to figure out what its role in the future of tech will be.

On the other side, today's Mac users simply aren't the rebels of a decade ago. In fact, many of today's Mac buyers are recent Windows converts. Apple likes to boast that half the Macs sold in Apple retail stores are going to first-time Mac buyers. Sure, the message is that Windows is losing steam—but it's also that the Mac tent is big enough to include people who are completely uninvolved in the classic Apple-Microsoft rivalry. These switchers aren't making a political statement—they're just buying a computer.



Today's Mac users simply aren't the rebels of a decade ago. In fact, many of them are recent Windows converts.

Besides, buying a Mac these days doesn't even mean you have to abandon Windows. Since the advent of Intel-powered Macs, Macs have been able to run Windows just as well as PCs do. A healthy percentage of Mac users—according to a recent survey, it's 85 percent—also own a PC. (Hence this month's cover story about "Living with Windows" [page 28], an in-depth look at how to have both Macs and PCs in your life and the best ways to run Windows on your Mac.)

Future Battlegrounds

These days Apple loyalists have a new target: Google. The Web is littered with articles pointlessly asking, "Is Google the new Microsoft?" No, Google is its own unique thing. It's a major competitor for Apple in some areas—and a boon to Mac users in others. As we explore in this month's other feature story, "It's a Google World" (page 42), there are plenty of reasons for Mac users to opt for

Google's Web-based tools. I use Google Apps for all my personal e-mail, and within *Macworld* we use Google Docs to collaborate on articles.

At the same time, Google and Apple are beginning to butt heads. The most obvious point of friction is the smartphone market, where Google's Android operating system is taking on the iPhone. I recently used a Google Nexus One phone for a week, and came away impressed (macworld.com/5918). Android isn't up to the caliber of the iPhone yet, but it's coming on strong.

(Microsoft isn't ceding the smartphone market without a fight: The new version of the Windows Mobile OS—Windows Phone Series 7—may have a terrible name. But in throwing away its old mobile platform and building an entirely new one, Microsoft is taking risks and trying to innovate. That's big news.)

Why We Buy

Some people decide that they simply can't support some companies. I used to hear from lots of Mac users who said they'd never use a Microsoft product (never mind the popularity of Microsoft Office for Mac).

But I've never been a fan of making buying decisions that way. If a company makes the best product, I'm inclined to use it. And I don't use products just because they come from Apple. (I use Google Calendar and Google Apps rather than Apple's MobileMe, for example.) As much as I appreciate Apple's products and philosophy, Apple thrives on strong competition. Whether that comes from Microsoft, Google, or someone else entirely, competition works wonders—for the market in general, and for the users of Apple's products.

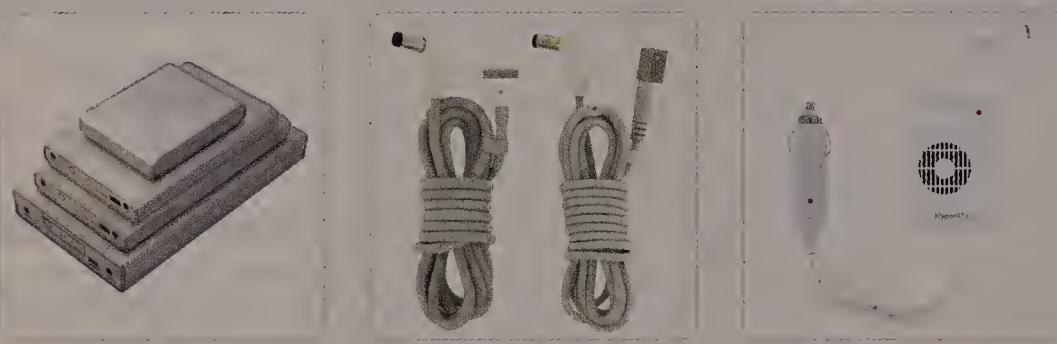
Send your comments to Editorial Director **Jason Snell** at jsnell@macworld.com, or follow him on Twitter at twitter.com/jsnell.

Extend your Apple® MacBook® battery life up to 34 hours!



World's first external battery and car charger for all Apple MacBook, MacBook Pro, MacBook Air models

Power and recharge your MacBook continuously for more than a day or recharge your iPhone up to 52 times with built-in USB power port



Four different capacities to choose from

HyperMac External Battery for MacBook comes in 4 different sizes (60/100/150/222Wh). In comparison, the MacBook Air internal battery is only 37Wh.

Original Apple MagSafe power connector/cable*

HyperMac uses original Apple MagSafe™ power connectors for maximum compatibility, allowing every battery to work with all MacBooks models.

The better way to power MacBook on the road

HyperMac Car Charger powers your MacBook via DC power and is safer, higher fidelity, more efficient and compact than traditional AC inverters.

HyperMac

www.hypermac.com/mw | 1.888.202.1888

© 2009 Sanho Corporation. Apple, and MacBook are registered trademarks and MagSafe is a trademark of Apple, Inc. All rights reserved. * The MagSafe cable and connector is manufactured by Apple, Inc. and modified to be compatible with HyperMac.

Macworld

VP, EDITORIAL DIRECTOR Jason Snell

EXECUTIVE EDITORS Philip Michaels, Dan Miller

MANAGING EDITOR Sue Voelkel

ART DIRECTOR Rob Schultz

SENIOR WEB PRODUCER Curt Poff

LAB DIRECTOR James Galbraith

SENIOR EDITORS Christopher Breen, Jackie Dove, Dan Frakes, Roman Loyola, Scholle Sawyer McFarland, Jonathan Seff

ASSISTANT MANAGING EDITOR Sally Zahner

SENIOR ASSOCIATE EDITORS Heather Kelly, Dan Moren

ASSOCIATE EDITOR Chris Holt

DESIGNER Carli Morgenstein

EDITORIAL INTERNS Lynn La, Meghann Myers

SENIOR CONTRIBUTORS Adam C. Engst, Rob Griffiths, John Gruber, Jim Heid, Andy Ihnatko, Joe Kissell, Ted Landau, Rick LePage, Ben Long, Kirk McElhearn, John Moltz, John Siracusa, Derrick Story

CONTRIBUTING PHOTOGRAPHER Peter Belanger

DIRECTOR, WEB DESIGN Jason Brightman

SENIOR VIDEO PRODUCER Chris Manners

USER INTERFACE DESIGNER Sky Collins

HOW TO CONTACT MACWORLD SUBSCRIPTION SERVICES

Access your subscription account online—24 hours a day, 7 days a week—at www.macworld.com/customer_service or <http://service.macworld.com>. You can use online subscription services to view your account status, change your address, pay your bill, renew your subscription, report a missing or damaged issue, get the answers to frequently asked questions, and much more.

To start subscribing visit <http://subscribe.macworld.com>.

U.S. MAIL Macworld Subscriptions Department
P.O. Box 37781, Boone, IA 50037-0781
(If you are writing about an existing account, please include your name and address as they appear on your mailing label.)

E-MAIL suhelp@macworld.com
(Send your full name and the address at which you subscribe; do not send attachments.)

FAX 515/432-6994

PHONE 800/288-6848 from the United States and Canada; 515/243-3273 from all other locations

The one-year (12-issue) subscription rate is \$34.97; the two-year rate, \$59.97; and the three-year rate, \$79.97. Foreign orders must be prepaid in U.S. funds; add \$10 per year for postage to Canada or \$25 per year for air freight to all other countries. Checks must be made payable in U.S. currency to *Macworld*. Please allow 3 to 6 weeks to receive your first issue or for changes to be made to an existing subscription.

SUBSCRIBERS: If the Post Office alerts us that your magazine is undeliverable, we have no further obligation unless we receive a corrected address within one year.

MACWORLD EDITORIAL

The editors of *Macworld* welcome your tips, compliments, or complaints. Some stories and reviews from past issues can be located at www.macworld.com. We are unfortunately unable to look up stories from past issues, recommend products, or diagnose your Mac problems by phone, e-mail, or fax. You can contact Apple toll-free, at 800/538-9696, or visit the company's Web site, at www.apple.com. For editorial and advertising contact information, please turn the page.

May 2010, Volume 27, Issue 5

Macworld is a publication of Mac Publishing, LLC., and International Data Group, Inc. *Macworld* is an independent journal not affiliated with Apple, Inc. Copyright © 2010, Mac Publishing, LLC. All rights reserved. *Macworld*, the Macworld logo, *Macworld Lab*, the mouse-ratings logo, *MacCentral.com*, *PriceGrabber*, and *Mac Developer Journal* are registered trademarks of International Data Group, Inc., and used under license by Mac Publishing, LLC. *Apple*, the Apple logo, *Mac*, and *Macintosh* are registered trademarks of Apple, Inc. Printed in the United States of America.

IDG
INTERNATIONAL DATA GROUP

INTERNATIONAL DATA GROUP CHAIRMAN OF THE BOARD
Patrick J. McGovern

IDG COMMUNICATIONS, INC. CEO
Bob Carrigan

SCOSCHE[®]
the necessary accessory

sync
up...



MICRO & MINI USB 2.0
CHARGE & SYNC CABLE



USB 2.0 CHARGE & SYNC CABLE
for iPod & iPhone



IPUSBM

Made for
iPod

Works with
iPhone

Use promo code "MW2010" to receive 10% off your order at scosche.com
©2010 Scosche Industries, Inc. iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. "Made for iPod" and "Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

SCOSCHE[®] 30
WWW.SCOSCHE.COM 800.363.4490

Macworld Superguides

Macworld's Superguide Series

These handy books are produced by the editors at Macworld. Packed with practical how-to's, the best tricks, in-depth features, trouble-shooting advice, tips and more.

NEW!



Mac Basics SUPRGUIDE

NEW!



NEW!



Macworld Digital Photography Superguide

ORDER NOW!

macworld.com/superguide

Macworld Superguides are available in 3 convenient formats: 1) Downloadable PDFs: Get immediate access. 2) Printed Book: Order a handy, full-color printed book on high-quality paper. 3) PDF on CD-ROM: Don't want to download the PDF, get it on CD-ROM.

Macworld

PRESIDENT AND CEO

Mike Kisseberth

EXECUTIVE ASSISTANT

Caroline Ward

VP, SALES

Stacey Levy (415/978-3255)

DIRECTOR OF SALES

Gabe Rogol (415/974-7373)

SENIOR ACCOUNT DIRECTOR, MIDWEST

Kathy McKay (847/251-9274)

EAST

EASTERN ACCOUNT DIRECTOR

Amy Singer (201/634-2317)

SALES MANAGER

Kathy Rebello (508/820-0440)

SALES ASSOCIATE

Shari Redan (207/899-2099)

WEST

SOUTHWEST ACCOUNT DIRECTOR

Cindy Hamilton (949/442-4005)

NORTHWEST ACCOUNT DIRECTOR

Elaine Ebner (415/267-4578)

SALES ASSOCIATE

Chrissy Schneider (415/978-3269)

SR. ACCOUNT MANAGER, SALES DEVELOPMENT

Duane Hampson (415/978-3133)

SALES ASSOCIATE

Meggen Thorp (415/978-3266)

ACCOUNT MANAGER, SALES DEVELOPMENT

Niki Stranz (415/243-3664)

ACCOUNT EXECUTIVE, SALES DEVELOPMENT

Carol Johnstone (415/978-3390)

ACCOUNT COORDINATOR

Paul Moretti (415/243-3575)

MARKETING MANAGER

Jim Hopkins

DIRECTOR, AD OPERATIONS

Kevin Barden

AD OPERATIONS PROJECT MANAGER

Leilani Lopez

AD OPERATIONS COORDINATORS

Keri Campbell, Andrew Galluccio

DIRECTOR, PRODUCTION

Nancy Jonathans

PREPRESS MANAGER

Tamara Gargus

ASSISTANT PRODUCTION MANAGER

Eliza Wee

CTO

Aaron Jones

SENIOR DIRECTOR, IT & WEB OPERATIONS

Sean Greathouse

IT MANAGER

Walter Clegg

SYSTEMS ANALYST

Eileen Quan

SENIOR SYSTEM/NETWORKS ADMINISTRATOR

Wil Shultz

SENIOR WEB OPERATIONS ADMINISTRATOR

Andrew Trice

DIRECTOR, APPLICATIONS DEVELOPMENT

Jim Hutson

SENIOR APPLICATIONS DEVELOPERS

Alexis Barrera, Bill Cappel, Justin Counts, Kieran Fitzpatrick, Paul Hinks, Wei Ming Xu

EXECUTIVE VP/GENERAL MANAGER, ONLINE

Stephan Scherzer

VP, BUSINESS DEVELOPMENT

Ulla McGee

SENIOR DIRECTOR, AUDIENCE DEVELOPMENT AND ANALYTICS

Alexa Wiggins

DIRECTOR, BUSINESS AND PROGRAM DEVELOPMENT

Brian Buizer

SENIOR PROGRAM MANAGER

David Lake

NEWSLETTER SERVICES MANAGER

Michael E. England

E-MAIL MARKETING MANAGER

DW Malouf

RESEARCH ANALYST

Kyle Flick

BUSINESS DEVELOPMENT COORDINATOR

Alisha Billingsley

ONLINE BUSINESS INTERNS

Nicholas Swanson, Toni Panayotov

PROCIRC SUBSCRIPTION MANAGEMENT

Shawne Burke Pecar, Susi Chapman, Megan Guard

PROCIRC RETAIL SOLUTIONS

Scott Hill, Mark Peterson

VP, HUMAN RESOURCES

Kate Coldwell

HUMAN RESOURCES REPRESENTATIVE

Ellen Cobb

SENIOR VP, CFO/COO

Vicki Peilen

DIRECTOR, FINANCE

Diane Ryczek

DIRECTOR, FINANCIAL AD OPERATIONS

Diane Hacker

DIRECTOR, ADVERTISING ACCOUNT SERVICES

Kevin Greene

DIRECTOR, ACCOUNTING

Michelle Reyes

STAFF ACCOUNTANT

Scott Lum-Duenas

ACCOUNTING ASSISTANT

Jose Rodas

HOW TO CONTACT MACWORLD STAFF

Our offices are located at 501 Second Street, 6th Floor, San Francisco, CA 94107; phone, 415/243-0505; fax, 415/243-3545. Macworld staff can be reached by e-mail at firstname.lastname@macworld.com.

LETTERS TO THE EDITOR

Send comments about any aspect of Macworld to letters@macworld.com. Due to the high volume of mail we receive, we can't respond to each letter. We reserve the right to edit all submissions. Letters published in Macworld or on Macworld.com become the property of Mac Publishing.

BACK ISSUES OF MACWORLD

Starting with the March 2003 Macworld, back issues can be downloaded in digital format, from www.zinio.com (\$6.99; Mac OS X 10.1 or later required). Print-format back issues (subject to availability) cost \$8 per issue for U.S. delivery, and \$12 for international delivery; prepayment in U.S. currency to Macworld is required. Send a check or money order to Macworld Back Issues, P.O. Box 37781, Boone, IA 50037-0781; or phone 800/288-6848 (U.S. and Canada) or 515/243-3273 (all other locations).

REPRINTS AND PERMISSIONS

You must have permission before reproducing any material from Macworld. Send e-mail to permissions@macworld.com; please include a phone number.

MAILING LISTS

We periodically make lists of our customers available to mailers of goods and services that may interest you. If you do not wish to receive such mailings, please write to us at Macworld, P.O. Box 37781, Boone, IA 50037-0781, or e-mail us at subhelp@macworld.com. Please include a copy of your mailing label or your full name and address.

MACWORLD CONFERENCE & EXPO

As the flagship sponsor of Macworld Conference & Expo, Macworld encourages all subscribers to attend this exciting annual industry event. For information, please visit www.macworldexpo.com.



What's on your to-do list?

- Collect graphics for Macworld print ad
- Write text
- Design nice layout

Things

Mac + iPhone

"Things' combination of ease of use, great interface, and flexibility make it as close to the ideal Mac to-do app as we've seen."
—Dan Frakes, Macworld



Apple Design Award
Mac OS X Leopard Developer Showcase
2009 Winner

Get your free trial of Things for Mac:
www.culturedcode.com/macworld

Task management has never been this easy. Things lets you organize your to-dos in an elegant and intuitive way.

Welcoming Apple's Latest

Readers take a first look at the iPad and share their hopes for the new wonder product

Anticipating the iPad

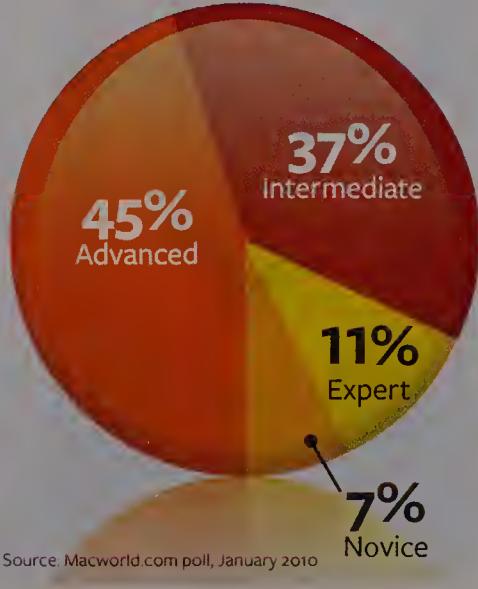
Tablet computers have existed for a long time ("The iPad Arrives," April 2010). But Apple has taken that concept and, in its typical minimalist style, reduced it to the core useful functions. The iPad is big enough to browse the Web with, small enough to function as an e-reader, and powerful enough to run a library of specialized apps. I think what Apple has done is looked at how people use iPhones, iPods, netbooks, e-readers, and notebook PCs, and given us a device that can do a lot of what each of these devices does but does better than any of them can do on their own.

—KPOM

I watched in horror as Steve Jobs unveiled a new "locked" device. This is a bad sign for consumers and developers.

READER POLL

What level of Mac user do you think you are?



We're watching a new wave of computing take place, and underneath the shiny cases lies the locked deception. While this device might be "unlocked" when it comes to the GSM network, it is locked by the App Store. Why don't more consumers throw up their hands, put their money back in their pockets, and demand that Apple allow them to freely load, unload, and transfer their own files. Everything about the iPad is fine, except that it is controlled by Apple.

—Ryan Dary

Apple has done a good job of presenting the iPad and its associated applications to the consumer, but I think the real future of the device is in so-called vertical applications. The B-1B aircraft had 1 million pages of documentation—can you imagine a tech performing repair work on an aircraft carrying only an iPad holding all the documentation necessary? The health, real estate, and education fields could also benefit greatly from the iPad. I think the iPad will make a big impact in many areas.

—Clarence H. Baisdon

I am sold on the iPad, even at version 1.0. I will enjoy not having to pull out a laptop for most of what I do, and I can carry the iPad around the house with me. I have already told family members that they are getting one for Christmas. Even my over-60-year-old parents think the iPad is very cool and are excited to be getting one.

—sgrmaba

This is how Apple will make money with the iPad: You can't just buy one iPad for the family, like you can a laptop or desktop. The iPad is a single-user device: single mail account, single calendar, single bookmarks, single iTunes. Of course Apple could fix that with software if it decided to allow multiple-user login. But I doubt Apple will do that, since it wants to sell as many iPads as possible.

—hillstones

Navigating GPS Apps

The one great feature I would like to see implemented in iPhone GPS apps is the ability to load a destination address directly from another app you are using, as you can do with Yelp ("Apps with Maps," April 2010). I use restaurant and store guides during my many travels, and just clicking and loading an address directly into a GPS app would be very quick and handy. Copy and paste doesn't always work because of the many steps it takes to load a destination.

—paulcrabtree

Telephone Tricks

I use Google Voice for my business ("What Is Google Voice?" *Working Mac*, March 2010). Your article says it's not a VoIP service like Skype, but I use the Google Voice Web interface on my business



booq 

Doio poses while John is working with his client Tunji at Tunji Dada's Fashion Design Studio in NYC.

Boa: Boa nerve, laptop messenger bag (\$129.95-149.95), visit booq.com for more details.

Model: John Dill (Designer, Photographer & DJ; pickledhouse.com). Location: Tunji Dada's Fashion Design Studio, New York City (tunjidada.com)

Photo: Erik Borzi (erikborzi.com)

Website, and when customers click, they are directly patched through to the paid-for Skype line in my office. The Skype line costs \$26 dollars a year and has replaced my 800 number, which was costing me nearly \$400 a year. The Google Voice number also rings my cell phone at the

same time, so if I am not at my computer, I can still pick up the call and conduct business without missing any calls.

■ Joyce Moor

For more on Google Voice, see "It's a Google World" on page 42.—Ed.

OVERHEARD ON THE FORUMS



Just because Apple products have seldom been successfully attacked in recent years doesn't mean they are invulnerable or that Apple can afford to be careless about security issues.

whitedog
macworld.com/5899

Jailbreaking unlocks some amazing features I am dying to use, but the hassle of basic functions on my phone not working isn't worth it to me. I still appreciate the jailbreakers for inspiring Apple to keep adding features.

funnyboy88
macworld.com/5898

Browser Beatdown

The Chrome browser is not friendly to Microsoft business users ("First Look: Google's Chrome Browser," *MacUser*, March 2010). It crashes more frequently than Safari, although the majority of the crashes are confined to a single tab, as you stated. The most significant flaw is the fact that it will save your credit card number as form autofill data. So if someone else uses your computer and starts to type a similar credit card number in a similar text box, your credit card number just pops up as autofill data. I use Chrome for 90 percent of my browsing in hopes that reporting my crash data and statistics will one day make it a great browser.

■ Martin Magaña

HandBrake Holding Back

HandBrake 0.9.4 is an improvement on the previous version in almost every way except one: The developers have removed support for the AVI file format.



www.ultra-case.com

We are a progressive online seller providing innovative, high quality and easy-to-use products at affordable prices. All our customers benefit from our experience and superior service. For further information, please visit: www.ultra-case.com

iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc.

UltraShock
designed for iPhone 3G/3GS

Correction

In the March 2010 *MacUser* "Hot Stuff," we listed the price of FastMac's TruePower UCS as \$10, shipping in February. FastMac has since changed the name of the product to U-Socket and changed the price to \$30 (\$20 for pre-orders). The product's ship date has also been delayed until the second quarter of 2010, pending regulatory approval.

People who use HandBrake to encode videos in AVI format for devices like DivX-certified DVD players should think twice before upgrading. It can still be done in 0.9.4, but in a roundabout way. You have to use the MKV file format with MPEG-4 (FFmpeg) video and MP3 (lame) audio. Then after HandBrake is finished, you must convert the resulting MKV file into AVI with an app such as Avidemux (avidemux.org). Of course

people who need to encode in AVI can choose to stick with HandBrake 0.9.3.

■ **Tony Ward**

Get Online

I've got another free place to get Wi-Fi, with almost as many locations as the Golden Arches—the public library ("How to Get Online from Anywhere," *Working Mac*, March 2010). Many public libraries in the United States have free Wi-Fi. As a technology trainer and consultant for libraries in Massachusetts, I rarely have to rely on a 3G connection for my iPhone (or MacBook). I get reliable Wi-Fi on the job all the time, and I'm not tempted to order a value meal every time I visit.

■ **Scott Kehoe**

Are We Psychic?

Your magazine always seems to address a problem I'm having right at the time your newest issue comes out. The March 2010 issue's feature "From Paper to Pixels" contained a sidebar that mentioned that

Contact Us

Post comments on our forums (✉) at forums.macworld.com or send them by e-mail (✉) to letters@macworld.com. Due to the high volume of comments we receive, we can't respond personally to each one. We reserve the right to edit all e-mail letters and forum comments. All published letters and forum comments become the property of *Macworld*.

Hewlett-Packard's Scan Pro software no longer works with all-in-one printers and Snow Leopard. After my upgrade to OS X 10.6, I noticed this problem with the scanner part of my HP and was thoroughly flummoxed. You listed two workarounds with either Image Capture or Preview. I immediately tried them both and now have my scanning capability back on my HP all-in-one.

■ **Mark Walerysiak**

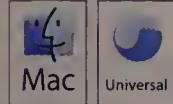
TECHTOOL PRO 5

Problems?

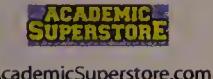
Fix them yourself and save money on costly repair bills.

Save Money! Install TechTool Pro Now!

- Keep your computer running smoothly.
- Help prevent problems in the future.
- Fix most of your problems on the spot.



Micromat, Inc., 5329 Skylane Blvd., Santa Rosa, CA 95403, USA
800-829-6227 707-566-3831 info@micromat.com www.micromat.com



AcademicSuperstore.com



campustech.com



frys.com



drbott.com



bestbuy.com



navarre.com



macmall.com



store.apple.com



microcenterorder.com



APPLE CLEANS UP ITS SUPPLY CHAIN

Company keeps an eye on working conditions at overseas manufacturers

By Dan Moren

Just prior to its most recent shareholder meeting, Apple issued its 2010 progress report on supplier responsibility. (You can download a PDF of the report from macworld.com/5903.) The timing was smart: Shareholders often use those meetings as opportunities to grill the company's executives about how well the company is meeting its social responsibilities. Issuing the report two days prior to the meeting was a good way to preemptively keep the heat down.

Like many American companies, Apple manufactures its products primarily overseas, in places such as Taiwan, mainland China, the Philippines, Singapore, and Thailand. Compared to the United States, many of these countries have lax labor laws. That laxity can rebound on Apple in unfortunate ways.

For example, in 2006 Apple was embarrassed by allegations that working conditions at Foxconn, one of its Chinese manufacturers, were inhumane. A British newspaper reported that workers in Foxconn's Longhua facility were working 15-hour days and were housed in crowded, ill-equipped dormitories. Apple investigated and found that the claims had merit.

In the wake of that investigation, Apple committed to auditing its suppliers annually, to make sure they were living up to Apple's code of conduct (a copy of which is available at macworld.com/5904). This year's report includes the results of supplier audits that Apple carried out in 2009, as well as information about the programs that the company has initiated to help improve conditions for workers across its supply base.

Education

In one of those programs—Train-the-Trainer—human resources personnel at manufacturing facilities are shown how to educate assembly-line workers about Apple's Supplier Code of Conduct, occupational health and safety, prevention of work-related injuries, and workers' rights and obligations. Apple reported that more than 133,000 people have been trained since the program started in 2008.

In addition to those efforts, Apple began a pilot program in 2009 called Supplier Employee Education and Development (SEED), which provides a computer-based classroom of 500 iMacs and offers English-language courses, technical-skill training, and associate degree programs. The company reports that 14,800 workers took advantage of the courses last year.

Protection

Apple has also instituted changes to reform the ways its suppliers recruit and manage foreign laborers. In particular, Apple has sought to limit recruitment fees, which such workers must sometimes pay to labor agencies. While such fees are legal, Apple has set a ceiling on them—equivalent to one month's net pay—in an effort to control the practice.

In Malaysia, Apple partnered with three other companies and other groups such as nongovernmental organizations (NGOs) and trade unions to launch a pilot program that would improve the management of foreign contract workers at a pair of Malaysian factories, as well as provide workers with cultural orientation and education on relevant laws and their rights. Apple said that the processes it learned from that experience will be extended to its other suppliers.

Audits

Apple conducts audits up and down its supply chain, from component suppliers (the companies that produce screens, hard drives, cases, and other Mac components, as well as smaller Apple products such as displays and keyboards) and nonproduction suppliers (which include office-supply vendors and call centers) all the way up to final assembly manufacturers, who actually assemble the finished Macs, iPods, and iPhones.

Apple reported that it audited 102 facilities in 2009, up from 83 in 2008 and 39 in 2007. (Those numbers include repeat audits of facilities where violations were found in the past.) Apple's report notes that most audited suppliers said Apple was the only company they worked with that performed that kind of oversight.

Of the facilities audited in 2009, Apple says that 72 percent were in compliance with its labor and human rights practices, 76 percent with its health and safety practices, 74 percent with its environmental impact practices, 95 percent with its ethics practices, and

61 percent with its management commitment practices.

The company considers some problems "core" violations, meaning they directly contradict Apple's Supplier Code of Conduct. Those violations—which include abuse, underage or involuntary labor, falsified audit materials, threats or intimidating practices against workers, and serious environmental threats—are acted on immediately. Apple says that 17 such core violations were discovered during the 2009 audits, accounting for 2 percent of the core issues assessed. The facilities in question are placed on probation for a year, and audited again at the end of that time.

The most common violations among Apple's suppliers had to do with excessive working hours, improper calculation of overtime, pay below minimum wages, deficient benefits, discrimination, unsafe working conditions, poor ergonomics, and negative environmental impact.

Among the facilities audited in 2009, Apple determined that seven were in need of "corrective actions." That meant an Apple-approved consultant was brought in to collaborate with the facilities' management to fix the problems.

Beyond these audits, Apple also holds suppliers accountable with a quarterly assessment of "Key Performance Indicators," which include measurements of training, injuries, and living conditions. Apple makes procurement decisions based in part on these indicators; when a supplier repeatedly fails to measure up, Apple stops using that company.

Despite these improvements, Apple still has work to do. Last year, a Foxconn employee committed suicide, reportedly after losing a prototype of a new iPhone; there were reports that the man had been abused by Foxconn security personnel. It's clear that, as long as it's sourcing products from countries that don't have the same kinds of oversight as the United States, Apple will have to provide that oversight itself.



Follow-up: iMac Screens

By Serenity Caldwell

Last month, we told you about problems with the screens on some new iMacs ("iMac Screen Woes," *MacUser*, April 2010): Some of those displays had a yellow tint, others flickered annoyingly, and still others arrived at users' doors with cracks in them. While it won't help the owners of those sorry displays, Apple has at least admitted that the problems are real.

At first, Apple treated these problems as isolated incidents. When Macworld Lab received a Mac with a cracked screen, Apple's response was perfunctory: "If any customer has an issue with their Mac, they should contact AppleCare for support."

So we were surprised to hear that the company recently issued the following statement to the technology site Gizmodo (www.gizmodo.com): "We've addressed the issues that caused display flickering and yellow tint. Customers concerned that their iMac is affected should contact AppleCare."

It's not exactly an apology, but it's a start.

If you think you might have one of the yellow-tinted screens, but aren't sure, you can download a screen test (macworld.com/5901); if any part of that image looks yellow to you, then you should contact Apple.

SPYING MACBOOKS: THE GAME IS UP

By Jeff Porten

The MacBook's built-in iSight camera is great for things like iChat videoconferencing. But it can also be used for more sinister ends: A suburban Philadelphia school district reportedly used those built-in cameras to spy on students at home.

According to a lawsuit filed in Pennsylvania, a vice principal in the Lower Merion school district accused a student of using illicit drugs at home. When the student's parents asked for evidence, the vice principal said that he had pictures from the camera on the student's laptop.



The school district had issued MacBooks to 2300 of its students; it had also installed security software on all of those Macs. The tracking software can be used to remotely monitor *any* user—which is what the school district allegedly did. Such monitoring could be illegal under federal and state laws. The FBI is investigating.

Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 6*	FIND CODE
DESKTOP						
iMac	Intel Core 2 Duo/3.06GHz (nVidia GeForce 9400M)	4 1/2	\$1199	21.5 inches	148	5510
	Intel Core 2 Duo/3.06GHz (ATI Radeon HD 4670)	4 1/2	\$1499	21.5 inches	164	5509
	Intel Core 2 Duo/3.06GHz	4 1/2	\$1699	27 inches	162	5508
	Intel Core i5/2.66GHz	4 1/2	\$1999	27 inches	209	5511
Mac Mini	Intel Core 2 Duo/2.26GHz, with 160GB hard drive (late 2009)	4 1/2	\$599	not included	104	5507
	Intel Core 2 Duo/2.53GHz, with 320GB hard drive (late 2009)	4 1/2	\$799	not included	118	5506
Mac Pro	Intel Xeon/quad-core 2.66GHz	4 1/2	\$2499	not included	348	4488
	Intel Xeon/two quad-core 2.26GHz	4 1/2	\$3299	not included	343	4503
PORTABLE						
MacBook	Intel Core 2 Duo/2.26GHz (white)	4 1/2	\$999	13 inches	111	5505
MacBook Air	Intel Core 2 Duo/1.86GHz	4 1/2	\$1499	13 inches	156	4953
	Intel Core 2 Duo/2.13GHz	4 1/2	\$1799	13 inches	175	4954
MacBook Pro	Intel Core 2 Duo/2.26GHz	4 1/2	\$1199	13 inches	213	4947
	Intel Core 2 Duo/2.53GHz	4 1/2	\$1499	13 inches	239	4948
	Intel Core 2 Duo/2.53GHz	4 1/2	\$1699	15 inches	237	4949
	Intel Core 2 Duo/2.66GHz	4 1/2	\$1999	15 inches	242	4950
	Intel Core 2 Duo/2.8GHz	4 1/2	\$2299	15 inches	260	4951
	Intel Core 2 Duo/2.8GHz	4 1/2	\$2499	17 inches	256	4952

* Speedmark 6 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.6 (Snow Leopard). For more information on Speedmark testing, go to macworld.com/5503.



Opera Beta: World's Fastest Browser?

By Dan Moren

Market share? Who cares? The folks at Opera keep forging on. Last fall, the company released Opera 10 (macworld.com/5902). Now it has released a beta version of Opera 10.50 (www.opera.com), with the marketing tagline "The Fastest Browser on Earth."

Opera 10.50's marquee feature is a new JavaScript engine, which the company claims runs eight times faster than Opera 10's. Also under the hood is better compliance with Web standards such as HTML5 and CSS 3 and a new high-performance graphics library.

It also comes with a handful of Mac-specific tweaks, including a unified toolbar, Growl support, and Multi-Touch gestures (on compatible MacBooks and MacBook Pros). A new Opera Widgets platform seems like an answer to Firefox and Chrome extensions, allowing developers to create widgets that run as separate processes—even outside the browser.

Up front, Opera 10.50 will sport a number of new end-user features such as easily customizable search engines, a more intelligent address field (with search capability), private browsing (by window or tab), and improved find-on-page capability.

If past releases are any measure, 10.50 will stay in beta for a few months, meaning it should be available in final form sometime in late spring. In the meantime, Opera 10.50 beta 1 is a free download; it requires Mac OS X 10.4 or later running on an Intel-based Mac.



CIRCUS
PONIES



Needs NoteBook

Has NoteBook

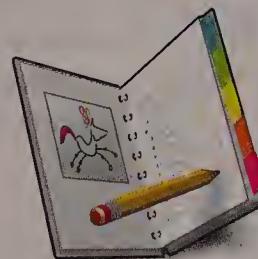
Stickies. Scraps of paper. Web clippings. Meeting notes. Reminders. Take control of it all with Circus Ponies NoteBook. Get organized using a familiar notebook interface of pages, tabs, and sections. "Clip" web research,

e-mails and other content to your Notebooks for handy reference. Never miss a detail with voice-annotated notes you play back on your iPod. Diagram and sketch when words won't convey your thoughts. Track and sync your

tasks to iCal and your phone. Find anything instantly with NoteBook's patented Multidex™. Share your Notebooks as PDFs or websites. And much more. NoteBook has everything you need to get organized.

"Download NoteBook right now and try it for yourself, **FREE for 30 days**"

www.circusponies.com/trialmw



"A terrific notetaking program bursting with useful ways to organize your life."

Macworld



CIRCUS PONIES NoteBook

The easy way to get organized on the Mac™

ACADEMIC
SUPERSTORE

amazon.com Apple Store

MICRO CENTER

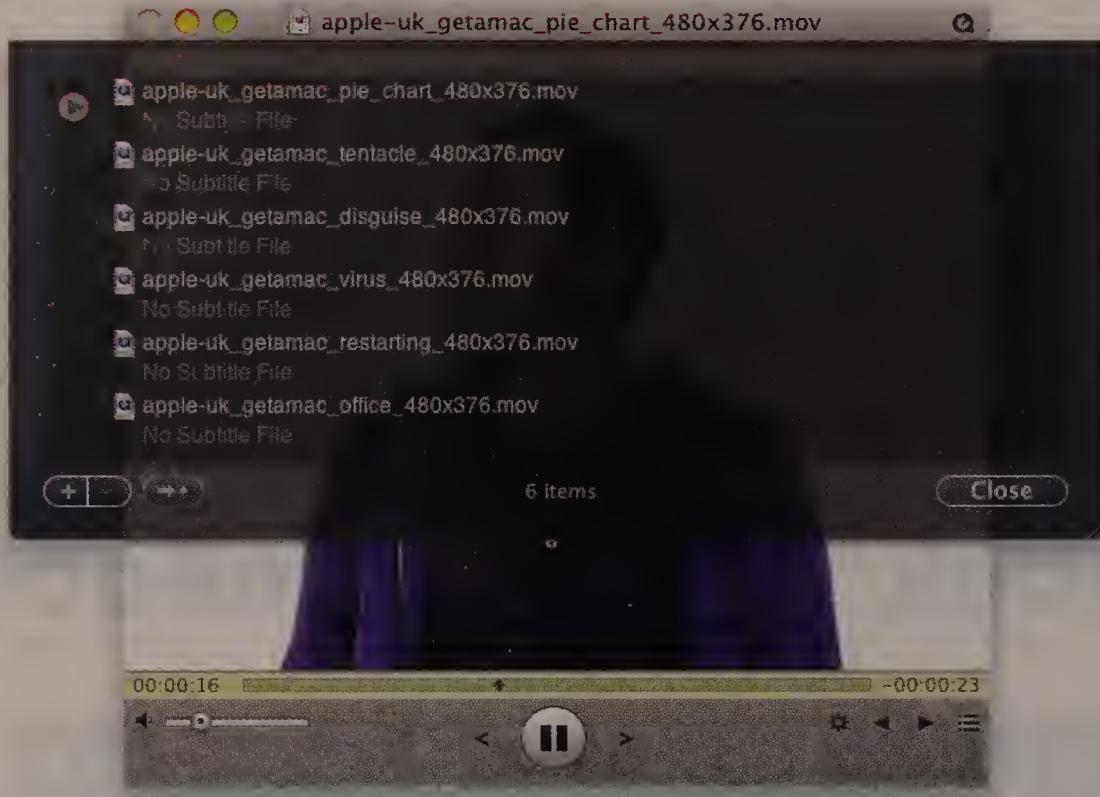
Office
DEPOT

Small Dog
Electronics
Always By Your Side

TEKSERVE

Mac Gems

DISCOVER GREAT, LOW-COST MAC PRODUCTS BY DAN FRAKES



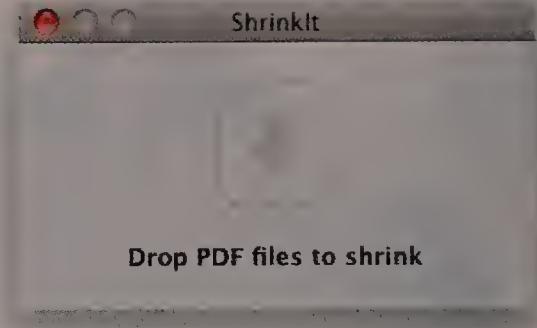
Movist 0.6.7

VIDEO VLC media player has long held the crown of “best free, handle-anything media player” for Mac OS X. But these days, there are a number of quality alternatives, including Movist, which has an interface that’s more attractive and easier to use than VLC’s. Like VLC, Movist is based in part on FFmpeg, a cross-platform set of codecs that lets you play a plethora of media formats. It also gives you lots of options for playback size, aspect ratio, cropping, and stretching; the most flexible subtitle controls I’ve seen; and, like VLC, a playlist feature for queuing up multiple videos. A nice full-screen navigation mode lets you browse your Movies folder in an interface very much like Apple’s own Front Row.

In my testing, Movist handled most video files with aplomb; however, on rare occasions the program crashed when playing a video that VLC had played without issue.

The current version of Movist doesn’t let you view a VIDEO_TS folder (from a ripped DVD) directly; you must open the folder and drop the individual .vob files into Movist. Still, Movist is a solid option for viewing video that QuickTime can’t handle—and even some that it can.

3½; free; Movist project on Google Code; macworld.com/5855



ShrinkIt 1.1

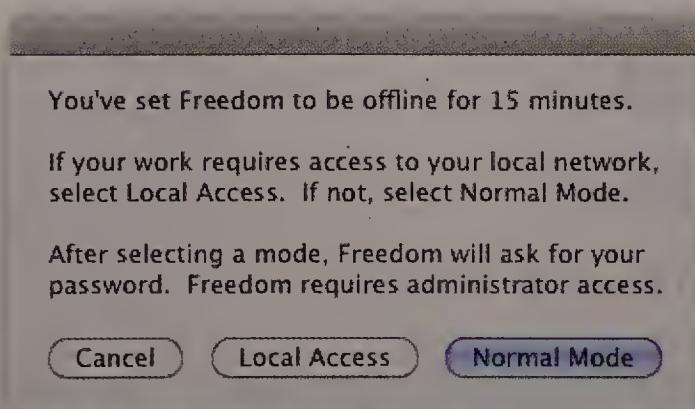
UTILITIES If you have PDFs you’d like to reduce in size so you can more easily send them via e-mail (or, for developers, so they can reduce the size of application bundles), ShrinkIt shrinks PDF files en masse—without a loss of quality—by stripping them of unnecessary data such as preview images. The procedure works best on vector PDFs with extraneous data; for example, PDFs created in Adobe Illustrator and InDesign tend to contain lots of nonvital, program-specific cruft.

You just drop one or more PDFs into the ShrinkIt window, and in a few seconds you’ll have smaller versions of those files, saved in the same location as the originals; each original is renamed with org at the beginning of its name.

3½; free; Panic; macworld.com/5856

Go to Weblog

Read Mac Gems online (macworld.com/macgems) for longer reviews of these and other products.



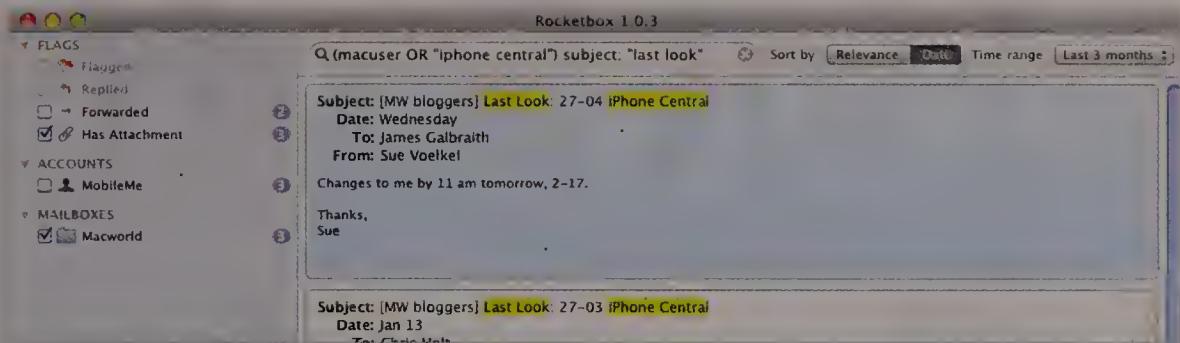
Freedom 0.5.1

PRODUCTIVITY The Internet can be nigh irresistible—especially when you or your kids have work that needs doing. Freedom can help by completely disabling your computer’s Internet connection, preventing you from engaging in any activity that requires a network connection. You choose, on launch, how long you want to work Internet-free, and whether you want to maintain access to your local network. After that, no amount of fiddling with network settings or cables will restore your Internet connection—your computer is on Internet lockdown. 3½; payment requested; Fred Stutzman; macworld.com/5859

Rocketbox 1.0.3

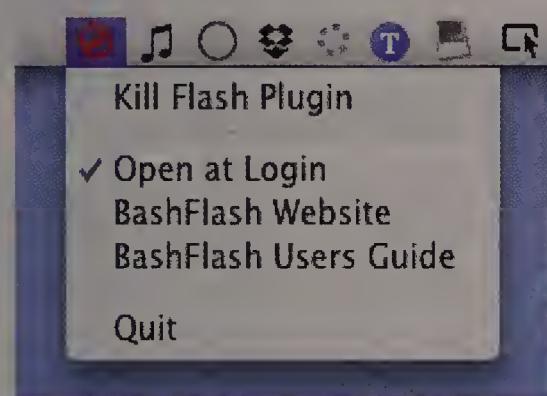
E-MAIL If you're frustrated by the limitations of Mail's built-in Spotlight search feature, Rocketbox can help. This plug-in for Mail handles all your Mail searches, letting you quickly search by person or using a host of search syntaxes, Boolean operators, and wildcards. Rocketbox displays relevant excerpts of matching messages in a separate window, highlighting the terms you searched for. You can filter the results by time or folder, and display only messages that have attachments or that have been forwarded, flagged, or replied to.

In a test of a Mail archive of over 50,000 messages, Rocketbox was plenty speedy, always displaying search results nearly instantaneously. On the other hand, the current version of the program can't search within message attachments, as Mail's own search feature can;



however, you can switch to Mail's built-in search if you ever need this capability. Rocketbox also currently lacks a number of other features you get with Mail's built-in search; for example, you can't save a search as a Smart Folder, you can't perform actions (replying, forwarding, deleting, and so forth) on messages in Rocketbox's search results, and you don't get a list view. However, many of these features are in the works, along with several others, such as MailTags integration and an improved search field.—**AAYUSH ARYA AND DAN MOREN**

1½; \$15; Central Atomics; macworld.com/5861



BashFlash 1.0

WEB I'm a huge fan of ClickToFlash (**1½**; macworld.com/5857), the Safari plug-in that lets you choose exactly which bits of Flash content get loaded in your Web browser. But ClickToFlash can't protect you from Flash you've approved. Those bits can still, even in Snow Leopard, tax your CPU and waste your battery. BashFlash's systemwide menu-bar icon indicates Flash's CPU use: none, low, or high (over 30 percent). If Safari is crawling and BashFlash is glowing red, click the BashFlash menu and choose Kill Flash to kill Flash—and just Flash—across all Web pages in Safari; your browser windows and tabs are left intact. To reload any bit of Flash content, just reload the Web page it's on; only approved Flash content on that page is reloaded. (Unfortunately, BashFlash can't figure out which site is dragging your browser down.)

1½; payment requested; Tyler Loch; macworld.com/5860

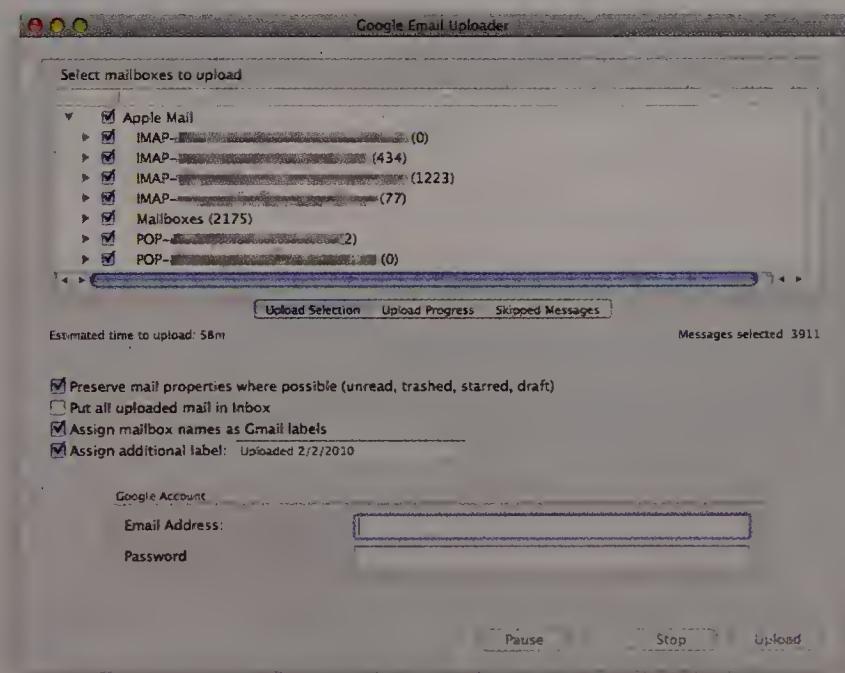
Google Email Uploader for Mac 1.0

E-MAIL Google's free Gmail service is so popular that some people have moved years' worth of old mail into Gmail, so they can access their archives from anywhere. The problem is that while Gmail makes it easy to import messages from other Webmail systems (such as Yahoo, AOL, or Hotmail), importing older messages already on your computer hasn't been easy.

Provided that you have a Google Apps-hosted Gmail account and you use Mail, Eudora, or Thunderbird, Google Email Uploader for Mac can help. Launch the utility, and it displays any mailboxes it finds; choose the ones you want to upload. You then choose whether to preserve message properties (for example, read/unread status) and whether to display uploaded messages in your Gmail Inbox. The program can automatically assign labels corresponding to mailbox names, and you can assign an additional label, such as today's date, that will let you quickly view in Gmail all the messages included in this upload.

After you provide your Gmail account name and password, just click Upload; the process can take a few seconds to a few hours. At the end, a Skipped Messages screen lets you view each message that couldn't be imported, along with the reason why.

Google Email Uploader's biggest limitation is that, because it currently uses the Google





Macworld Hot Stuff

WHAT WE'RE RAVING ABOUT THIS MONTH

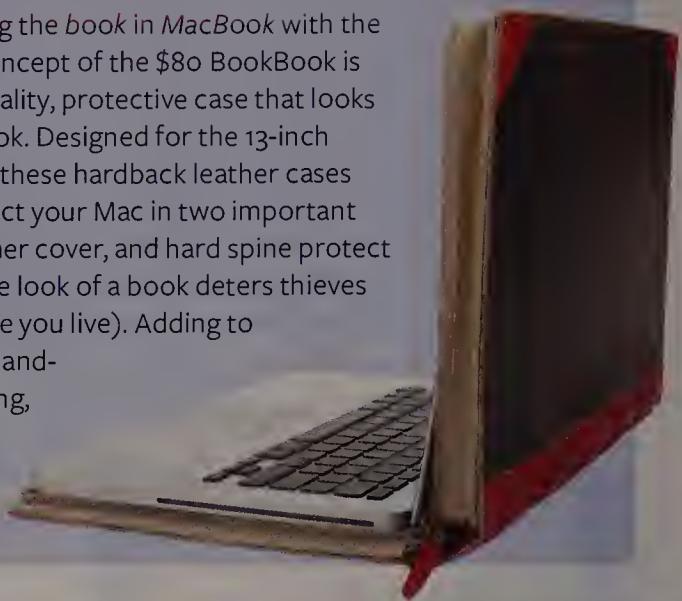


26 Piece Bit Driver Kit

The folks at iFixit have built a name for themselves by taking apart every gadget they can get their destructive hands on—and meticulously documenting the process. The company's resulting take-apart guides are mandatory for anyone undertaking DIY repair work. But you'll need the right tools, and iFixit has you covered there, too. For just \$15, the 26 Piece Bit Driver Kit includes a rubber-gripped magnetized driver and extension, a set of large tweezers for picking up tiny screws, and 26 bits. The kit comes with standard slot, Phillips, and hex sizes, plus Torx, star, tri-wing, triangle, and spanner bits—including all the special bits and sizes you need to take apart any Apple device. If the kit is missing a driver you need, iFixit also offers a 54-piece version for just \$5 more (www.ifixit.com).—DAN FRAKES

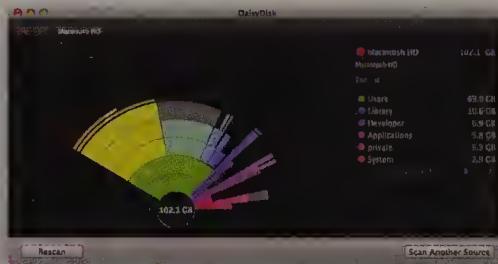
BookBook

The folks at Twelve South are putting the book in MacBook with the aptly named BookBook case. The concept of the \$80 BookBook is pretty straightforward: provide a quality, protective case that looks just like a leather-bound, vintage book. Designed for the 13-inch MacBook and 15-inch MacBook Pro, these hardback leather cases come in black or red, and they protect your Mac in two important ways: the padded interior, rigid leather cover, and hard spine protect against drops and crushing, while the look of a book deters thieves (unless book theft is prevalent where you live). Adding to the appeal of the BookBook are its hand-craftsmanship and custom distressing, meaning that no two are exactly alike (www.twelvesouth.com).—DAVID DAHLQUIST



Daisy Disk

Plenty of programs tell you what's taking up all your disk space, but none do it quite as attractively as Daisy Disk. A wheel-like display shows you blocks of your data. Mouse over one to find out which file or folder it represents. Click on one representing a folder, and Daisy Disk will open a new wheel of its contents. On the right there's a list of the biggest items. All that eye candy costs \$20 (www.daisydiskapp.com).—DAN MOREN



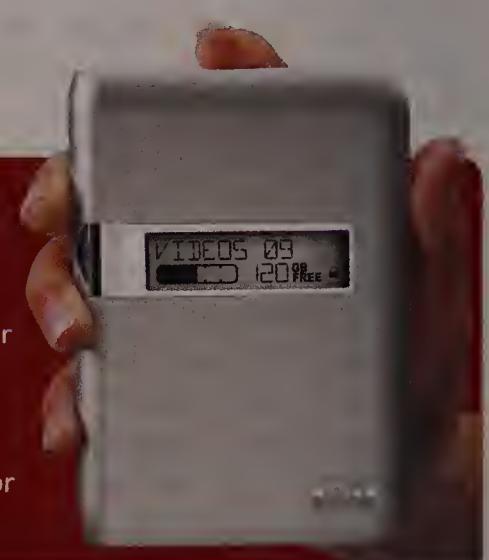
Echofon

Echofon has a popular iPhone Twitter client; now it's releasing a Mac version that has all the features you would expect, along with Growl integration, keyword scanning, and syncing with the iPhone client. It's currently in beta and available as a free download, but it requires Mac OS X 10.5 (echofon.com/twitter/mac).—DAN MOREN



MY PASSPORT STUDIO

The My Passport Studio is the newest member of Western Digital's popular Passport series of bus-powered, portable hard drives. It has FireWire 800 and USB 2.0, and comes preformatted for the Mac and works with Time Machine. Its WD SmartWare software enables you to password-protect the drive, performs backups, and features 256-bit hardware encryption. The always-on e-label shows available capacity, as well as any label information that you'd like to add—such as a volume name, for example. The My Passport Studio comes in three different capacities: 320GB for \$150, 500GB for \$180, and 640GB for \$200 (www.wdc.com).—JAMES GALBRAITH



New.



Quieter than ever before.

Introducing Bose® QuietComfort® 15 Acoustic Noise Cancelling® headphones.

Our best headphones. Since we introduced the world's first noise cancelling headphones over 20 years ago, we have conducted continuous research to improve this technology. Now, we have engineered significant advances in noise reduction to make the QC®15 headphones our quietest ever. Exclusive Bose technologies electronically sense more of the sounds around you, reducing more noise across a wider range of frequencies. And we didn't stop there. We developed a new ear cushion that further reduces unwanted noise and helps create an extremely comfortable fit. It works in harmony with the electronics to deliver a better listening experience. Mark A. Kellner of *The Washington Times* says they "reproduce music with extreme clarity, fidelity and definition."

Try them for yourself risk free. When you fly, the engine roar fades even further away. When you listen to music at home or at work, fewer distractions get in the way. Less noise, along with our acclaimed lifelike sound, a fit that stays comfortable for hours and the quality you expect from Bose. It all adds up to a combination of benefits unmatched in the industry. Seth Porges of *Popular Mechanics* states that "Compared to the competition...the QC15s are vastly superior." You can relax and appreciate music, movies or just some serenity more than ever before. We invite you to try QC15 headphones for yourself risk free for 30 days. And when you call, ask about making **12 easy payments**, with no interest charges from Bose.* We're so sure you'll be delighted, we'll even pay to ship them to your door.

Welcome to an even quieter world.

To order or learn more:

1-800-729-2073, ext. Q7847 or visit Bose.com/QC

BOSE®
Better sound through research®

*Bose payment plan available on orders of \$299-\$1500 paid by major credit card. Separate financing offers may be available for select products. See website for details. Down payment is 1/12 the product price plus applicable tax and shipping charges, charged when your order is shipped. Then, your credit card will be billed for 11 equal monthly installments beginning approximately one month from the date your order is shipped, with 0% APR and no interest charges from Bose. Credit card rules and interest may apply. U.S. residents only. Limit one active financing program per customer. ©2010 Bose Corporation. Patent rights issued and/or pending. The distinctive design of the headphone oval ring is a trademark of Bose Corporation. Financing and free shipping offers not to be combined with other offers or applied to previous purchases, and subject to change without notice. Risk free refers to 30-day trial only and does not include return shipping. Delivery is subject to product availability. Quotes reprinted with permission. C_008472

BLACKBERRY MAKER FRETS ABOUT BANDWIDTH CRUNCH

But do you need to worry?

By Marco Tabini

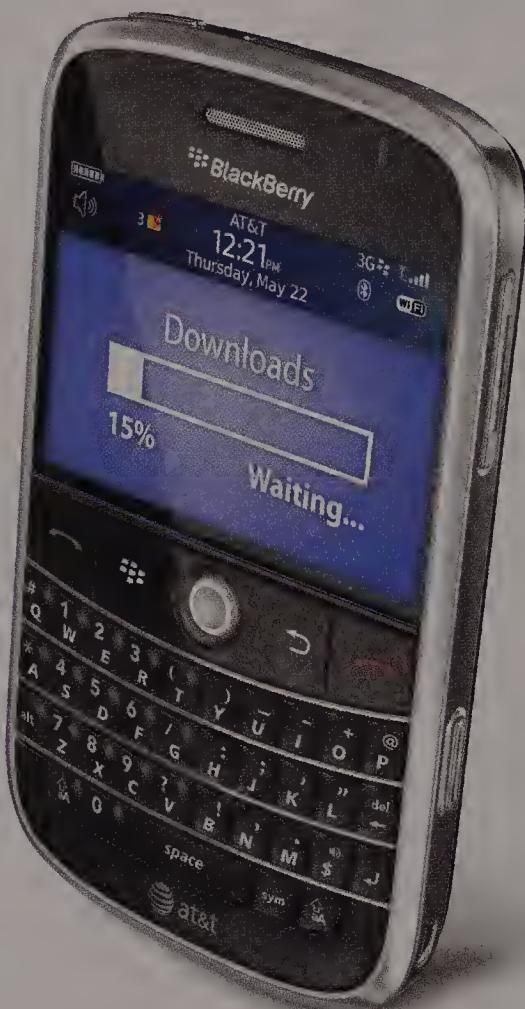
The high bandwidth usage of smartphones could bring about a “capacity crunch” on worldwide networks that could be solved only by a more conscientious approach to device and application development. Or so says Mike Lazaridis, the co-CEO of BlackBerry maker Research In Motion.

In an interview with Reuters (macworld.com/5890), Lazaridis contends that the United States is already experiencing a significant strain on its mobile networks due to smartphones—a comment that could be interpreted as a sideways jab at the iPhone. iPhone users’ heavy data usage has, in many densely populated areas, overloaded AT&T’s cellular network, resulting in poor wireless speeds and other connectivity problems.

Lazaridis’s view, which Reuters claims is shared by other industry analysts, is based on the premise that, on cellular networks, bandwidth is a limited commodity shared by all users—unlike wired networks, which have a huge data-transmission capacity.

Lazaridis’s view is flawed for a number of reasons. Wired and wireless networks operate in much the same way: Multiple users share the same bandwidth, with traffic sectioned into smaller interconnected units—local networks in one case, and mobile cell networks in the other. In fact, the data traffic generated by mobile phones is effectively collected at a cell repeater and then retransmitted (often across a wired connection) through a dedicated link to the Internet.

Moreover, while it’s true that wired networks have greater capacity than



wireless networks, one needs only to look at their historical development to understand that bandwidth is not a finite commodity, but rather a function of the technology that supports it. Fifteen years ago, local-area networks could barely break 1 Mbps, and a fast Internet connection that didn’t require the sale of body parts was measured in kilobits. As a result of increased customer demand, the technology has improved to the point where today’s wired connections are cheaper and significantly faster.

The same kinds of cost and capacity efficiencies have happened—and continue

to happen—with cellular networks. Anyone who had the misfortune of requiring a GPRS connection only a few years ago is familiar with its two key features: lack of speed and sky-high cost. A few short years have given mobile users significant increases in speed and capacity, with more to come in the form of 4G network deployment (macworld.com/5891).

Apple, along with many manufacturers of recent mobile devices (phones and tablets alike), has bet on the fact that users expect their wireless experience to be at least as rich as the one they enjoy within the comfort of their homes and offices; judging from the response to both iPhones and Android-based handsets, these device makers are right. So the increase in bandwidth usage is not due to the recklessness of smartphone manufacturers—rather, it’s a result of customers taking full advantage of handsets that bring them computing capabilities that *they want to use*. It’s also worth noting that BlackBerrys route all of their data through RIM’s own servers; according to the company’s financial filings, it made more than \$1.5 billion in subscription services over the last fiscal year.

Will smartphones bring about a bandwidth apocalypse? It’s impossible to say right now, but smartphone users have shown that if they have a capable device, they’ll use it. *A lot*. That means it’s up to the companies laying the pipe to make sure the capacity that 21st-century mobile users demand is supported.

Marco Tabini is an entrepreneur and writer based in Toronto.

3G LIMITS GETTING 86'D

By Dan Moren

Some of the limits surrounding AT&T's 3G network are beginning to give way.

The most recent limitation to get rolled back is the cap on the size of apps and media files you can download to your iPhone. Previously, you could download any app or media file you wanted onto your iPhone when you were on the 3G network—provided that app wasn't larger than 10MB. If it was, you had to switch to Wi-Fi.

But now the file-size limit has been upped to 20MB. And that includes media you download from the iTunes Store over 3G—if the file is under the 20MB ceiling.

This isn't the first sign that AT&T and Apple have been loosening up on bandwidth requirements. Earlier this year, Apple started allowing Voice over



IP applications such as Fring (macworld.com/4329) and iCall (macworld.com/5865) to make calls over the 3G network. In February, AT&T allowed SlingPlayer Mobile to stream video over 3G. (See our review of SlingPlayer Mobile, page 26.) So far, there's no sign of a bandwidth overload.

Are iPhone users finally reaping some of the rewards of AT&T's promised improvements to its wireless networks? Could our long national nightmare of choked bandwidth finally be at an end? Will we once again be able to make calls from the city and

frolic, carefree, in the streets?

We can hope. For now, we'll have to content ourselves with downloading all the 20MB applications, podcasts, songs, and videos that our iPhones can hold.

iPhones: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	PERFORMANCE	FIND CODE
iPhone 3G and 3GS	8GB (3G)	4.5	\$99	3.5-inch color	6 hours of Wi-Fi Internet; 5 hours of 3G talktime	4184
	16GB (3GS)	4.5	\$199	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talktime	4955
	32GB (3GS)	4.5	\$299	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talktime	4956
iPod Touch	8GB	4.5	\$199	3.5-inch color	30 hours of music playback; 6 hours of video playback	3864
	32GB	4.5	\$299	3.5-inch color	30 hours of music playback; 6 hours of video playback	5257
	64GB	4.5	\$399	3.5-inch color	30 hours of music playback; 6 hours of video playback	5258

*All prices are Apple's prices. [†]In a browser's address field, typing in a find code after macworld.com/takes you to a product's review or overview.

What's New at the App Store



Cut Down Your Time in Line

Juicy Development wants to make sure that you spend as little time as possible in line during your next trip to the Magic Kingdom. The developer's FastTrac (macworld.com/5863) app helps you plan out an efficient trip to Disneyland. Just enter the attractions you wish to ride at the theme park on your given day, along with your arrival time, and the \$5 app will create a customized schedule for you based on such factors as how busy that day has been in the past, the popularity of the ride, and a database of tips and tricks from Disneyland veterans.—SERENITY CALDWELL



Meebo IM App Ready for a Chat

Almost a year after an iPhone version was first demoed, the multiclient IM app Meebo (macworld.com/5864) has arrived on the iPhone. Chief among the free app's features are the ability to search through your past chats on the iPhone app and on the Web-based Meebo.com client. It also supports push notifications and lets you seamlessly switch between chat sessions on the iPhone app or your computer. Meebo supports AIM, Yahoo, Windows Live Messenger, Google Talk, Facebook, MySpace and 100 other networks.—NICHOLAS BONSACK



Siri at Your Service

Siri Assistant (macworld.com/5862), a free iPhone 3GS app from Siri, obeys your every spoken command to handle tasks like hailing taxis, booking restaurants, and looking up movie information. But the app aims to be more than just a personal assistant—it also uses built-in artificial intelligence to adapt to your preferences and make better suggestions.—RAMU NAGAPPAN

APPLE CRACKS DOWN ON ADULT APPS

By David Chartier and Serenity Caldwell

Apple usually likes to tout the size of its App Store. But a February purge left the online store with 5000 fewer titles than there used to be.

In February, Apple began removing what it termed adult-content apps from the App Store. The most commonly disappeared apps were ones featuring pictures of women in various forms of undress, such as an offering called Wobble iBoobs (which pretty much did what its name implied). Developer Jon Atherton shared the e-mail he received from Apple with TechCrunch (macworld.com/5866), in which Apple cites "numerous complaints from our customers about this type of content." Indeed, that's what Apple told us when we asked about the



mass removal of adult-themed apps. "Whenever we receive customer complaints about objectionable content, we review them," Apple spokesperson Trudy Muller said. "If we find these apps contain inappropriate material, we

remove them and request the developer make any necessary changes in order to be distributed by Apple."

But some apps, it seems, can still get away with steamier content—provided they're produced by major publishers. An

app from Playboy (macworld.com/5867), as well as Sports Illustrated's SI Swimsuit 2010 (macworld.com/5868), remains available on the App Store as of this writing, leaving some developers wondering where Apple draws the line.

Mobile Navigator Gets Personal

If you demand more from your GPS turn-by-turn directions app than simply finding the way to your destination, you'll welcome Navion's update to its \$80 MobileNavigator iPhone app (macworld.com/5778). Version 1.5.0 adds three major new features.

Want to let your friends know where you are without having to call each and every one? The In-App Social Media feature allows you to post your current position, destination, and estimated time of arrival to Facebook or Twitter.

If driving optimization is more your speed, MyRoutes formulates customized routes based on your individual driving data. It presents you with up to three options for routes, based on information like the time of day, the day of the week, and your driving habits, and then gives you the distance, the ETA, and an overview of the route on the map.

Finally, Panorama 3D—available as a \$10 in-app purchase—uses information from NASA's height and terrain database to provide a rendered 3D version of your surroundings, complete with shadows, geographic images, and elevations.—DAN MOREN



iPhone Case Puts You in Control

By Dan Frakes

The iV Plus, from FastMac in association with software

developer UMEE, is more than just a case for housing your iPhone—though the \$100 case does take care of that. But it also sports a number of unexpected features—an LED flash that synchronizes with your phone's camera, and a 1300mAh battery for adding a little extra juice, to name just two.

But the iV Plus's big appeal lies in its included infrared transmitter and receiver. Combine those with a custom iPhone app developed by UMEE, and your iV Plus-clad iPhone can act as a universal remote control for your home entertainment system.

The app lets you browse an extensive database of AV products: receivers, CD players, Blu-ray players, DVD players, TiVos, cable boxes, the Apple TV, and so on. Once you've chosen your devices, each gets its own screen with the appropriate buttons for controlling the device. (The developer plans to update the app's database with more devices.) You can also create tasks—specific combinations of devices to be used together. For example, a Watch DVDs task might include your TV, DVD player, and home-theater receiver; pressing the Watch DVDs button would automatically turn on your TV, DVD player, and home theater system, and then switch the TV and receiver to the DVD input.

The iV Plus should be available by the time you read this. FastMac is also looking into a version for the iPod touch, due to customer demand.



Power up to win 1 of 7 APC BR700G Battery Back-UPS units (a \$130 value)!



Key Code
s159w

www.apc.com/promo
888-289-APCC x8299
FAX: 401-788-2797

Name: _____ Title: _____

Company: _____

Address: _____ Address 2: _____

City/Town: _____ State: _____ Zip Code: _____ Country: _____

Phone: _____ Fax: _____

e-mail: _____

Yes! Send me more information via e-mail and sign me up for the Uptime e-mail newsletter. Key Code: s159w

What type of availability solution do you need? UPS: 0-16kVA (Single-phase) UPS: 10-80kVA (3-phase AC)
 UPS: 80+ kVA (3-phase AC) DC Power Networking Enclosures & Racks Air Conditioning Cables/Wires
 Monitoring & Management Line Conditioning Mobile Protection Surge Protection UPS Upgrade Don't Know

Purchase time frame? < 1 Month 1-3 Months 3-12 Months > 1 Year Don't Know

You are (check one) Home/Home Office Business (<1000 employees) Large Corporation (>1000 employees)
 Government, Education, Public Organization APC Sellers and Partners

APC
by Schneider Electric



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL

PERMIT # 36

WEST KINGSTON RI

POSTAGE WILL BE PAID BY ADDRESSEE



ATTENTION CRC: **s159w**
132 FAIRGROUNDS RD
PO BOX 278
WEST KINGSTON RI 02892-9920



With APC Back-UPS, your digital life goes on...



Back-UPS
XS 1500

APC
Legendary
Reliability®

even when the power goes off.

Preserve what's most important to you.

Reliable power backup for 24/7 availability

Whether DVRing your favorite show, updating your Facebook status, or playing a live networked game, you depend on your home electronics every day, all day. That's why APC by Schneider Electric has designed battery backup solutions that protect the constant availability and connectivity you expect...and depend on.

Peace-of-mind protection on two levels

When the power goes out, our popular Back-UPS units go to work. They instantly switch your home technologies to emergency power, allowing you to work through brief power outages or safely shut down your systems so you won't lose valuable files—such as digital photos and media libraries. They also feature surge outlets to guard your electronics and data from "dirty" power and damaging power surges—even lightning. So you get two levels of protection in every APC Back-UPS unit!

Energy-saving insurance for what matters most

Our Back-UPS units protect your home office, digital living and home media applications, notebook computers, DVRs, and gaming application. And since we now offer energy-efficient models that reduce electricity costs through unique power-saving outlets, you can realize true energy savings regardless of the applications you're backing up. Throughout your home, the APC Back-UPS is the cost-saving insurance you need to stay up and running and reliably safeguarded from both unpredictable power and wasteful energy drains.



Power up to WIN 1 of 7 APC BR700G Battery Back-UPS units (a \$130 value)!

Visit www.apc.com/promo Key Code s159w • Call 888-289-APCC x8299 • Fax 401-788-2797



Keep your electronics up and your energy use down!

ES Series

The ever-popular ES models are priced affordably yet provide enough extended runtime to allow you to work through short and medium power outages. Some power-saving models have been designed to actively reduce energy costs.

The energy-efficient ES 750G

The ES 750G boasts innovative power-saving outlets, which automatically shut off power to unused devices when your electronics are turned off or asleep, eliminating wasteful electricity drains.

- 10 Outlets • 450 Watts / 750 VA
- 70 Minutes Maximum Runtime
- Telephone/Network Protection



The best-value ES 550G

The ES 550 uses an ultra-efficient design that consumes less power during normal operation than any other battery backup in its class, saving you money on your electricity bill.

- 8 Outlets • 330 Watts / 550 VA
- 43 Minutes Maximum Runtime
- Telephone/Network Protection



APC

by Schneider Electric

App Guide

iPHONE AND iPOD TOUCH SOFTWARE THAT'S CAUGHT OUR EYE

Backbreaker Football 1.2.1

GAMES Football season may be deep in hibernation, but you can still experience your share of bone-snapping tackles with this well-designed game, which makes brilliant use of the iPhone's accelerometer. You're placed, in first-person perspective, in the cleats of a running back who has to advance the ball down the field, as a progression of tacklers try to plant you into the turf. You tilt your iPhone to control the runner, using on-screen buttons to juke and spin past defenders, and racking up points. It's an engaging approach that immerses you completely in the game.—PHILIP MICHAELS

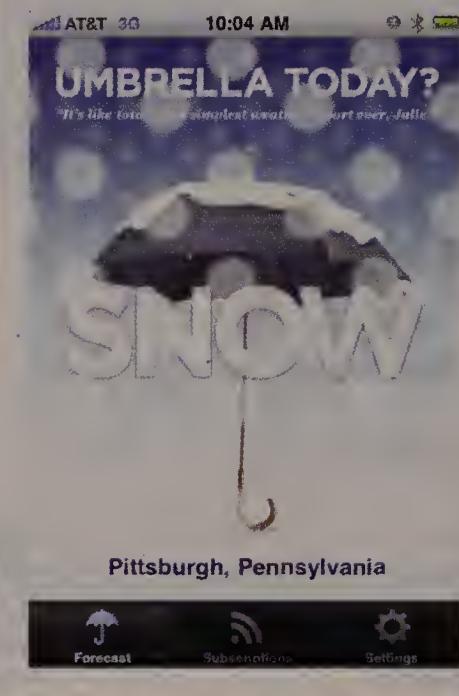
4.5; \$1; NaturalMotion; macworld.com/5833



WorldCard Mobile 1.2.3

PRODUCTIVITY In the crowded field of apps that use the iPhone 3GS's camera to scan business card data onto your iPhone, WorldCard Mobile stands out. Scanning cards with the app is blazingly fast. When you review the scanned contact data, WorldCard Mobile shows you a cropped image from the card to reflect where that information came from. This simplifies corrections, though in my testing, the app rarely made errors that I needed to fix. You can create new contacts with one tap; and merging data with existing contacts works great, too.—LEX FRIEDMAN

4.5; \$6; Penpower Technology; macworld.com/5836



Umbrella Today 1.0.1

UTILITIES Most people leaving the house don't need fancy Doppler radar or a lot of meteorological data to answer their most pressing question: Is it going to rain today? This app looks to provide an answer in as simple a format as possible. When you enter your location, the app displays a graphic "yes" or "no" answer. Umbrella Today supports both snow and rain, and its results are fairly accurate. If you'd rather not have to launch the app to find out the forecast, push-notification support lets the app send you a heads-up at a specific time each day.—ROB DE LA CRETZ

4.5; \$2; thoughtbot; macworld.com/5835

APP GEMS

Prosit

 Cocktails+ 4.5 Drink to your health with the help of this repository of 2000 mixed-drink recipes (macworld.com/5846).

We also like:

 Drync Wine Pro 4.5 macworld.com/5847

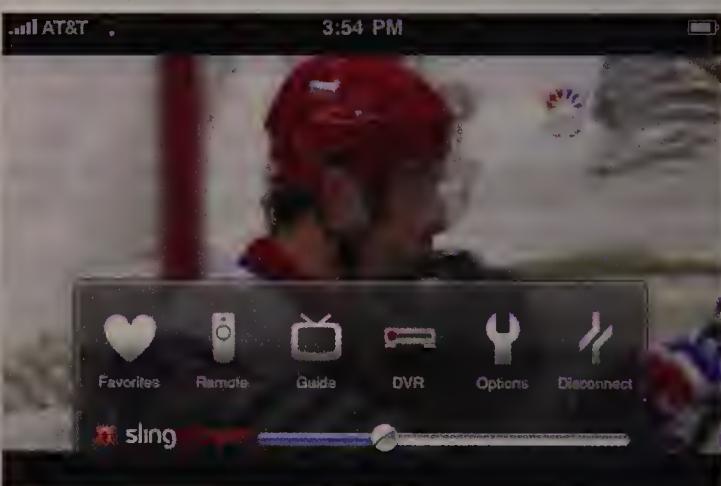
 Tiki+ 4.5 macworld.com/5848

Find more cocktail reference guides for your iPhone at macworld.com/5849.

SlingPlayer Mobile 1.2

VIDEO This app, which allows owners of Slingbox video players to watch live TV on their iPhone or iPod touch, disappointed in its initial release last year. But developer Sling Media made some improvements and—more important—AT&T relented on its policy that prohibited place-shifting live TV over its network, so you can now watch video over a 3G connection or over Wi-Fi. You won't get pristine video, but what you will get is still quite watchable, especially if you're tuned into your home team's game while sitting in a departure lounge at a far-off airport.—JASON SNELL

4.5; \$30; Sling Media; macworld.com/5834





Moodagent 1.0.1

MUSIC This app can help you explore the depth of the music stored on your iPhone or iPod touch by building playlists based on your current mood. You adjust Moodagent's five sliders representing a different musical/emotional quality—Sensual, Tender, Joy, Aggressive, and Tempo—and the app will produce a 25-song playlist representing the selected mix of qualities. The results are pretty satisfying—better than iTunes' Genius feature in my experience—and things figure to improve as Moodagent's database of songs becomes more extensive.—**BRIAN BEAM**

4.5; free; [Syntonic](http://syntonic.com/5837); macworld.com/5837

Dictator Defense 1.0.1

GAMES This easy-to-learn variation on the fortress defense game is also extremely addictive. You've got an impressive arsenal of weaponry—flamethrower-toting soldiers, dynamite, and laser machines, to name a few—which you deploy in the path of oncoming enemies to destroy them. Each of Dictator Defense's 40 levels presents varying challenges involving new enemies that attack in increasingly larger hordes. And eagle-eyed players will appreciate some of the game's clever visual touches. The concept is pretty simple, really, but that's part of the allure.—**BRYAN SCHELL**

4.5; \$1; [Digital Chocolate](http://DigitalChocolate.com/5838); macworld.com/5838



More Reviews

See more iPhone and iPod touch apps we've tested at iPhone Central (macworld.com/4164).

APP	DESCRIPTION	PRICE	RATING	FIND CODE*
MailTones 1.3 Electric Pocket	e-mail notifier	\$3	4.5	5854
McSweeney's 1.1 McSweeney's	e-reader	\$6	4.5	5853
Mental Case Flashcards 2.4.1 The Mental Faculty	study tool	\$3	4.5	5850
SpinArt 1.6.2 Brian Smith	design creator	\$1	4.5	5851
Uno 1.5.5 Gameloft	classic card game	\$5	4.5	5852

* In your browser's address field, typing a find code after macworld.com/ directs you to a product's review or overview. For example, macworld.com/5854 takes you to our review of Mailtones.

ESSENTIAL APPS

Noteworthy Expo Apps

These apps piqued our interest at Macworld Expo's Mobile Applications Showcase (macworld.com/5845).

AutoPark 4.5 Push notifications will spare you the indignity of parking tickets.

Pocket Informant 4.5 Swap out the built-in calendar for this feature-rich app.

Pattern Music 4.5 Create cool looping musical patterns.

Camera Plus Pro 4.5 This all-in-one camera app also lets you capture video.

TrueHDR 1.0.1

PHOTOGRAPHY This app uses the iPhone 3GS's selective-focus feature to merge two images into one. HDR (high-dynamic range) enthusiasts may argue that the result isn't a true HDR image, but the app expands the iPhone camera's limited powers. Using TrueHDR is as easy as pointing and shooting twice—once to focus on a bright area and the second time to focus on a dark area (the app also comes with extensive tutorials). The final, merged image produces a better-balanced shot than a single exposure would.—**JEFF PHILLIPS**

4.5; \$2; [Pictorial](http://Pictorial.com/5839); macworld.com/5839

App Guide

Get more reviews, including reader reviews, as well as listings for every iPhone app at AppGuide.com.





LIVING WITH WINDOWS

According to a recent survey, 85 percent of Mac owners also own a Windows PC. No doubt most of them want to make sure their Macs and Windows machines work together—sharing files, printers, iTunes libraries, and other network resources.

At the same time, it's easier than ever to run Windows on your Mac. Virtualization programs such as VMware's Fusion, Parallels Desktop, and Sun Microsystems' VirtualBox have been evolving rapidly over the past few years. The question is no longer whether they'll run your Windows software; it's how fast they'll do it and how well they'll integrate Windows with OS X.

To explore the various ways you can use both operating systems, we asked John Rizzo to explain how to share files, printers, and other resources between Macs and PCs on the same network. We also had Rob Griffiths review and compare the latest versions of Fusion, Parallels, and VirtualBox, to let you know which one is right for you. Finally, we gave Rich Mogull the job of explaining the security implications of mixing Macs and PCs.

The point is, Macs and Windows PCs no longer occupy entirely separate realms; they're mixing more than ever. The only challenge is to make sure they do so as harmoniously as possible.

How to share files, drives, and more with PCs, plus the best ways to run Windows on a Mac

Illustration By Eric Sturdevant

THE ODD COUPLE

How OS X and Windows can share files, screens, and more, without killing each other. **By John Rizzo**



Sharing files, hard drives, and other digital assets between Macs on a network can be simple. Doing so between Macs and Windows machines can be anything but.

While the two platforms each have built-in tools for cross-platform communication, getting those tools to work the way they should requires tinkering. The specifics of that tinkering depend on the versions of Windows and OS X you're using.

For the purposes of this story, I'll assume you're using OS X 10.5 or 10.6. I've provided separate instructions for Windows XP and Windows 7; the latter should work in the Home Premium, Professional, and Ultimate editions. The one exception is that screen-sharing doesn't work in Home Premium. I also assume that your Macs and Windows machines are already successfully connected to a home network and are visible to one another. (If not, see "Share a Router.")

Share a Mac's Files

Configuring your Mac to let Windows users access its folders isn't all that different from doing so for other Mac users: You tell OS X which folders you want to be accessible and then set permissions for them.

On Your Mac Start by opening the Sharing pane in System Preferences. Click the lock icon at the lower left and enter your administrator password to unlock it (if necessary). Then select the

File Sharing checkbox. With File Sharing still selected, click the Options button. Select the Share Files And Folders Using SMB (Windows) checkbox.

In the list of users below that checkbox, put a checkmark next to the account you want to share. Enter the account's password in the Authenticate dialog box and click OK. Repeat these steps for any other accounts you wish to share, and then click Done.

By default, OS X will share the Public folders for each user you just enabled. You can select other folders to share if you like: Click the plus-sign (+) button under the Shared Folders list and select the folder or drive you want to share.

You can define access permissions for each shared folder in the Users section. If you're the only user who will be sharing files between systems, you should already be on the list, with Read & Write privileges already selected.

If you have multiple users on your network and you aren't picky about who has access to your Mac's files, select Everyone from the Users list and set permissions (Read & Write, Read Only, or Write Only [Dropbox]). To control access user by user, click the plus-sign (+) button at the bottom of the Users section and either select each person from your Address Book or click the New Person button and enter a name and password there.

The Mac folders you've just shared should now be available from your Windows PC.

Windows XP Click the Start menu and select My Network Places. If you don't see the Mac listed under Local Network, click the Folders icon in the toolbar. In



Share a PC's Screen By installing Remote Desktop Connection on a Mac, you can remotely control a PC running Windows XP or Windows 7 (but not the Home Premium edition).

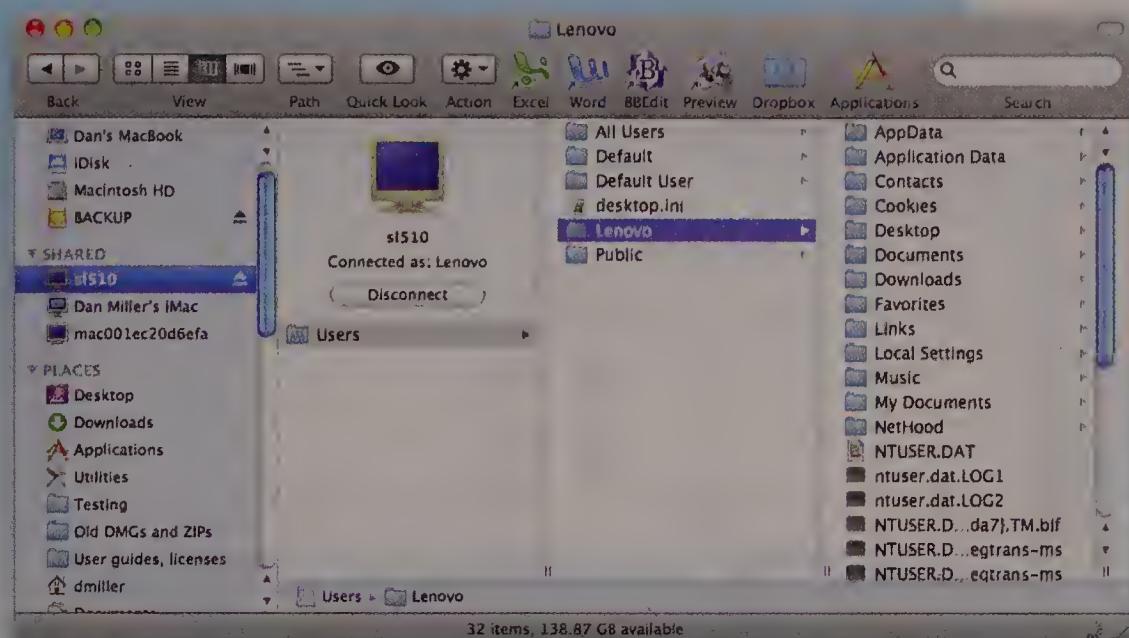
the Folders column on the left, look for the Mac under My Network Places. (It may be under Entire Network/Microsoft Windows Network/Workgroup.) Double-click the Mac entry and enter the username and password for the account you want to access.

Windows 7 Click the Start menu and select Computer (or go to any Windows Explorer window.) In the sidebar, click the disclosure triangle next to Network. You should see your Mac's name there. Click on it, and the shared folders will appear in the pane on the right.

Share a PC's Files

The process of setting up a Windows PC to share its files with a Mac varies depending on which version of Windows you're using.

Windows XP If you haven't set up file sharing before, open the Start menu and select My Network Places. Click Set Up A Home Or Small Office Network in the left column. When the Network Setup Wizard appears, click through the screens until you get to the one for File Sharing And



The PC in the Finder After you enable file sharing on the Windows PC, it will show up as another shared volume in the Mac's Finder; you can specify which of its folders are available.

Printing. Select Turn On File And Printer Sharing, and click Next. Windows will then ask you to restart the PC to implement your changes.

By default, the Shared Documents folder is available to other users on the network. To share another folder, right-click it in any Windows Explorer window and select Properties from the shortcut menu. Open the Share tab and select the options you want.

Windows 7 If you haven't done so already, create a password for the Administrator account: Go to the Start menu and open the Control Panel in icon view. Click on User Accounts and select Create A Password For Your Account, and then follow the instructions there.

If you haven't previously set up Windows 7 for file sharing, open the Control Panel (in icon view) and select Network And Sharing Center. There, click Choose Homegroup And Sharing Options and then select Change Advanced Sharing Settings.

In the subsequent window, turn on Network Discovery, File And Printer Sharing, Public Folder Sharing, and Password Protected Sharing. In the File Sharing Connections section, enable 128-bit encryption; in the HomeGroup section, keep the default setting. When you're done, click Save Changes.

To share specific folders, go to any Windows Explorer window and right-

click the folder you want to share. Click Share With and choose Specific People from the drop-down. In the File Sharing dialog box, select a user to share with (or create a new user) and set the level of access (Read or Read/Write).

On Your Mac Go to the Finder and click the disclosure triangle next to Shared in the sidebar. Click on the PC and enter the username and password for its Administrator account. You should then see the shared folders.

If the PC doesn't appear in the Mac's sidebar, select Go ▶ Connect To Server (or press ⌘-K). In the Connect To Server dialog box, enter **smb://ipaddress** or **smb://computername**. (To find out the PC's IP address, see "What's My Name?") If that doesn't work, try adding the port number **:139** to the end of the IP address (**smb://ipaddress:139**).

Share a Mac's Screen

To connect from a PC to a Mac, you'll need to install a VNC client in Windows. There are a number of free clients you can choose from, including TightVNC (www.tightvnc.com).

After you've downloaded and installed a VNC client on your PC, go back to your Mac and open System Preferences. Choose Sharing, and select the Screen Sharing checkbox.

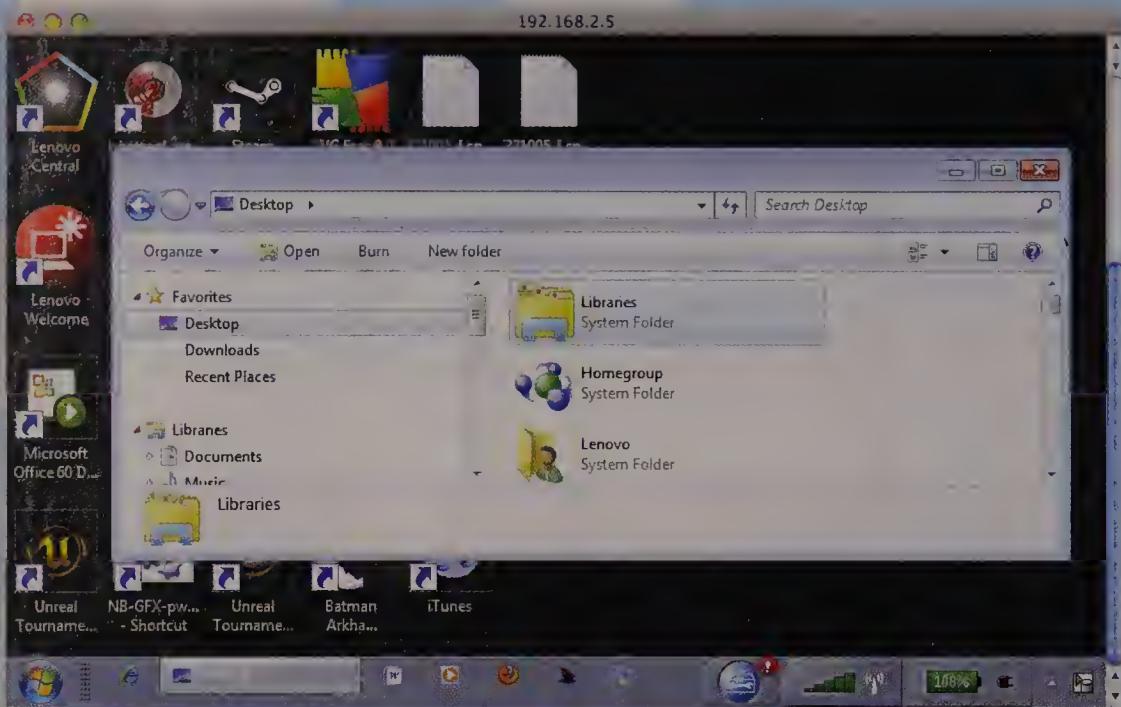
Screen sharing is now enabled for remote users signing in with the Mac's

What's My Name?

Here's how to find a Windows PC's network name or address:

Windows XP Go to Start ▶ Control panel (Classic view), double-click Network Connections and then click the name of the active connection; you'll find the IP address on the Support tab. For the computer name, go to Start ▶ My Computer, click View System Information, and then open the Computer Name tab.

Windows 7 Go to the Control Panel (Category view), click View Network Status And Tasks in the Network And Internet section, and then click the name of the active connection. In the Status dialog box, click Details; the IP address is next to IPv4 Address. To find the computer name, go to Start ▶ Computer. The computer name is at the lower left of the window next to the computer icon.



Windows Desktop on Your Mac Once you've connected to the Windows system from your Mac, its desktop can appear as just another application window.

administrator name and password. To enable others to share the Mac's screen, make sure Screen Sharing is still selected and click Computer Settings. Select Anyone May Request Permission To Control Screen and, if you wish, VNC Viewers May Control Screen With Password; if you select the latter, enter a password in the box. Finally, click OK.

Back in the Sharing pane, under Screen Sharing: On, you'll see a note that displays an IP address in the form of **vnc://ipaddress**. Make a note of the address.

Back on the PC, give your VNC client that address (but without the **vnc://** in the front). If you have trouble connecting, check your client's encoding settings: If

they're set to ZRLE, try switching to Hextile. In TightVNC, you'd do that by launching the VNC Viewer, clicking the Options button, and then selecting a different encoding setting from the Use Encoding drop-down menu.

Share a PC's Screen

To remotely control a Windows machine, you first need to install Microsoft's free Remote Desktop Connection Client for Mac (macworld.com/5879) on your Mac.

Unfortunately, RDC doesn't work with Windows 7 Home Premium edition; it works only with Windows 7 Professional, Ultimate, and Enterprise editions; if the PC is running the Home Premium edition of Windows 7, you're out of luck.

Windows XP Open Control Panel (in Classic view), double-click the System icon, and open the Remote tab. Select Allow Users To Connect Remotely To This Computer. (If you're using XP Home edition, select the checkbox for Allow Remote Assistance Invitations and then click on the Advanced button and select the checkbox for Allow This Computer To Be Controlled Remotely.)

If you're logged in as the administrator, and you have a password, click the

common. Still, you can take a number of measures to prevent them.

The first and best defense is to make sure your Windows systems are properly secured, with up-to-date security software.

Second, if you're on a Mac, it's a good idea to send and receive e-mail through a server or service that filters for viruses. Such services are updated more frequently than desktop antivirus apps, protect you from the few pieces of malware that do attack Macs, and don't require maintenance on your part.

Third, if you exchange lots of files with PC users over a network, you should install a Mac-based antivirus app that scans for Windows malware. Mac security products from Intego (www.intego.com/VirusBarrier), Kaspersky (macworld.com/5880), Sophos (macworld.com/1304), Symantec (macworld.com/5881), and Trend Micro (macworld.com/5882) all scan for Windows malware. Whatever app you use, make sure it's configured to scan e-mail, downloaded files, and files from portable and shared storage.

The Security Question

Can Macs and PCs Coexist Safely?

Under ordinary circumstances, and in the hands of an educated user, a properly configured Mac is not much of a security risk. Sharing a network with Windows systems doesn't change that; the Mac is still relatively safe.

Under some circumstances, however, even a properly configured Mac, with an educated user, can compromise the security of the Windows systems to which it's connected. But that risk is easy to manage with a few simple precautions.

Infecting Others

Macs rarely experience viruses or other forms of malicious software. But they can act as vectors for infections targeting Windows systems. It's not that the Mac is infected and used to attack the PC. Rather, the Mac may host an infected file; because of the

networked relationship, a vulnerable PC that trusts that Mac might then become infected.

For a Mac to act as a vector that spreads infections to Windows machines, three conditions must be met:

- > The Mac must access and share the infected file—via e-mail, instant messaging, shared storage (a flash drive, for example), or some similar mechanism.
- > The Windows system must be vulnerable to the malware, and its security defenses must fail to protect it.
- > The file evades network security filters. Typically, this is relevant only on corporate networks, which might have tools to filter Web traffic or to scan e-mail and file servers for viruses.

Because those three things need to happen, Mac-to-PC infections aren't

Apply button. If not, either click the Select Remote Users button to add new users or create new user accounts.

Windows 7 Open the Control Panel (Category view) and then open System And Security. Under System, click the Allow Remote Access link. In the System Properties' Remote tab, select Allow Connections From Computers Running Any Version Of Remote Desktop. If you're the administrator of the Windows system, click the Apply button. If not, click the Select Remote Users button to specify which users can log in to control the PC; you may want to create a new user account just for remote control.

Back on the Mac, launch the Remote Desktop Connection app. In the Computer field, type the PC's IP address or computer name and click Connect. Supply the username, password, and domain. (In XP, the default domain is Workgroup; in Windows 7, use the computer name.)

Share Storage

There are three good ways to share a single hard drive between Macs and PCs for general storage and backup: You can trade a USB hard drive between them; you can use a network-attached storage (NAS)

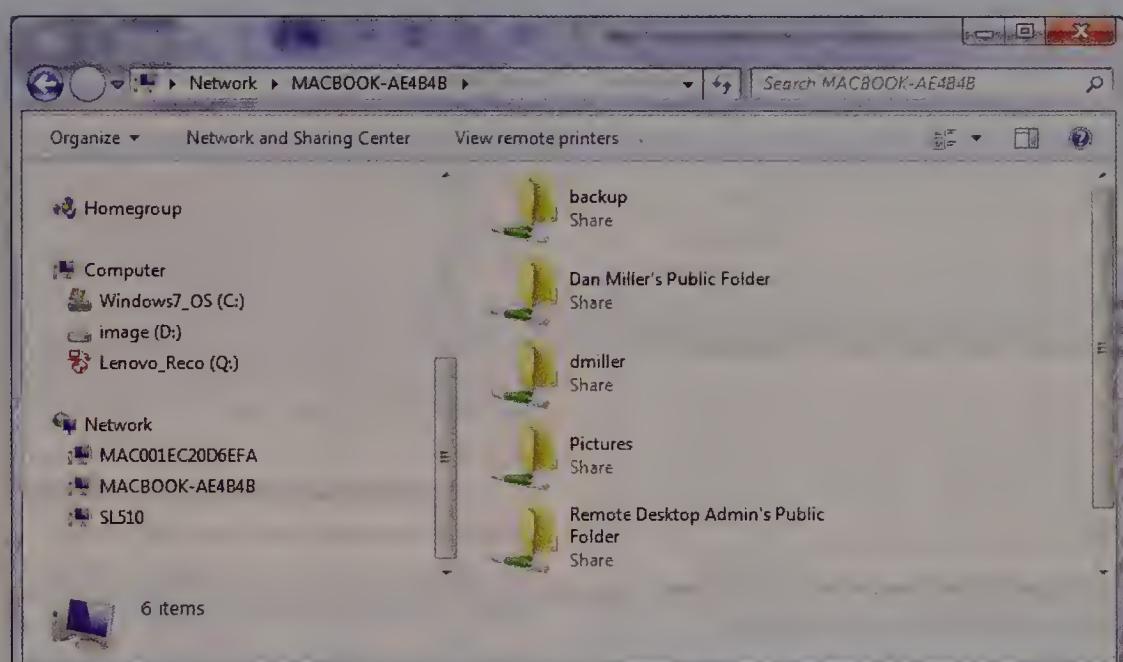
device (such as Apple's Time Capsule); and you can also use file sharing to back up data on one system to an external drive attached to another system.

Trade USB Hard Drive Macs and PCs both have USB ports to which you can connect a removable hard drive. The only sticky issue is formatting.

If the drive is formatted for the Mac (using HFS Extended or a variant), Windows won't recognize it. You can fix

that by installing Mediafour's \$50 MacDrive 8 (www.mediafour.com) on the Windows system; it enables Windows to use a Mac-formatted drive natively.

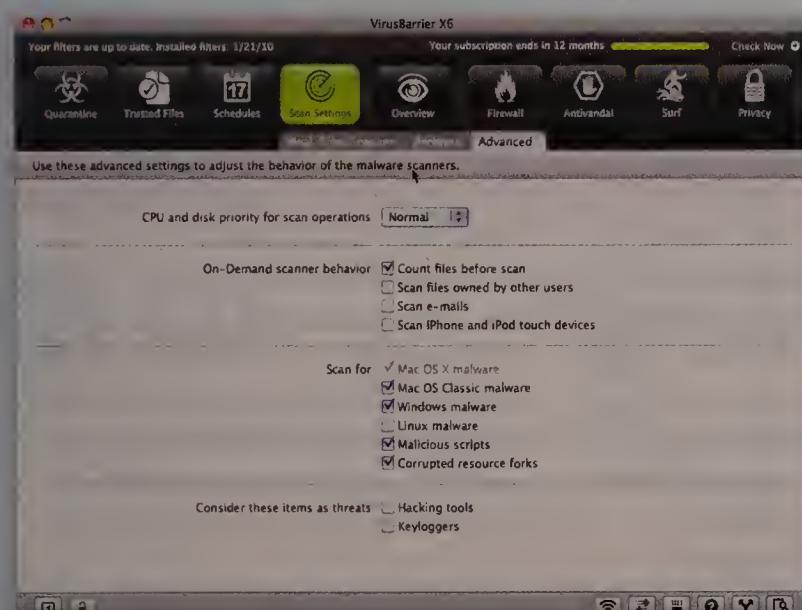
If the hard drive is formatted in the Windows NTFS format, it will mount on the desktop when you plug it into the Mac, but you won't be able to copy files to it. OS X can *read* NTFS drives, but it can't write to them. You can fix this by installing Paragon Software's \$32 NTFS



The Mac in Windows Explorer Once you've successfully set up file sharing, your Mac should be available in the Network section of the Windows Explorer sidebar.

Virtualization

You can infect neighboring PCs if you use virtualization software to run Windows programs on your Mac. And a Mac running Windows is as vulnerable as any PC.



VirusBarrier X6 A Mac security program like Intego's VirusBarrier X6 can be configured to watch out for Windows malware.

Both VMware Fusion and Parallels Desktop for Mac enable you to share the file system, the network, and even the desktop between OS X and Windows. So if your Windows virtual machine is exploited, the

data on your Mac could be exposed. You could even infect your own machine by downloading a file to your Mac and then accessing it on your hard drive from the Windows virtual machine.

Your best—actually, your only—option is to implement the same security measures on a Windows virtual machine as you would on a PC. Make sure you have Windows antivirus software installed on it, and that it's configured

to scan any file you open in Windows, not just e-mail attachments and downloaded files. If you don't want the Windows antivirus program to slow down your Mac while it checks all the files on your system, you can disable or limit file sharing between the two operating systems.

Compliance

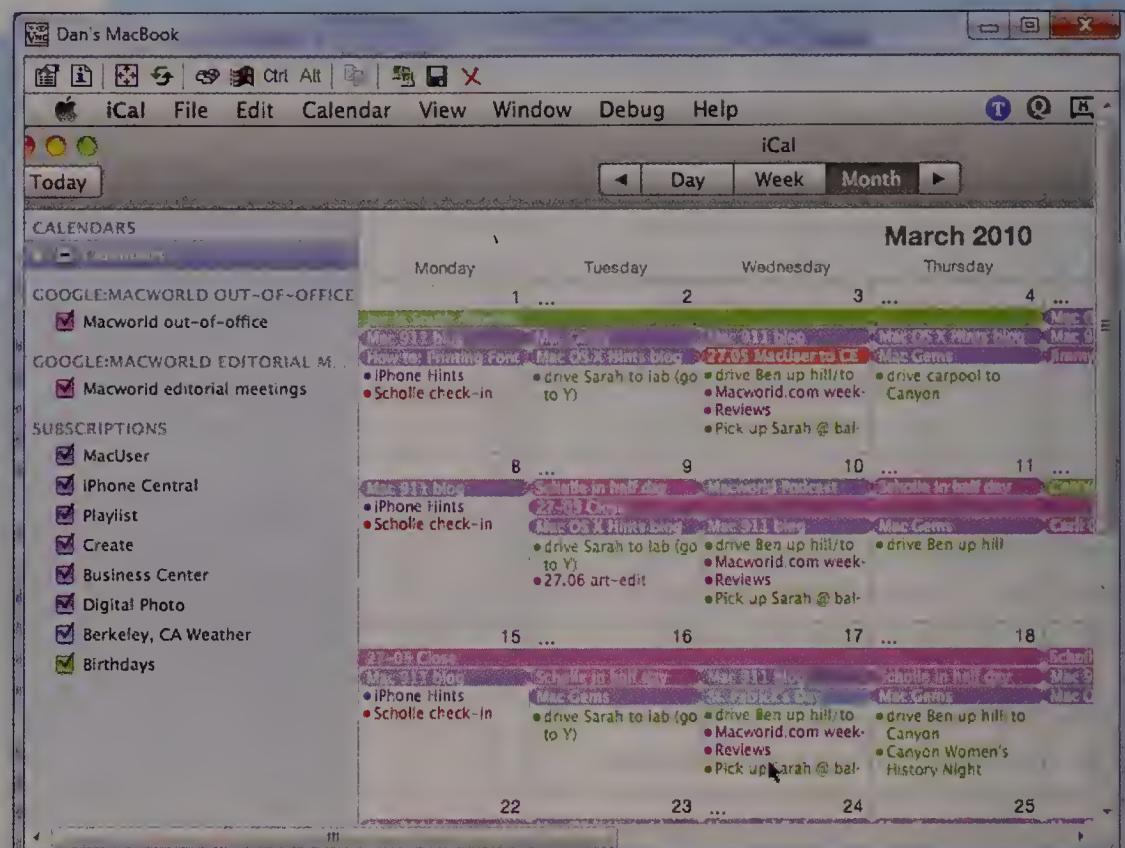
There's one other security concern, but it's relevant only to corporate networks. Some companies have policies in place requiring all systems on the network to be managed by centralized security tools—also called "endpoint security" tools. That means you have to make sure your Mac can be managed.

Most major endpoint security tools (from many of the same companies that make desktop antivirus apps) offer at least some basic Mac support. If you're bringing a Mac into a new company, check with the IT department to make sure they'll approve and to have them install the necessary client software.—RICH MOGULL

for Mac OS X (www.paragon-software.com). If you're adventurous, you can try two free programs: NTFS-3G for Mac OS X (www.tuxera.com) and MacFuse (macworld.com/5897), which you install together.

There is a third format that both Mac OS X and Windows can read and write to natively: FAT32. It's also the format that most USB flash drives use. FAT32 has some limitations: It can't store files bigger than 4GB, you can't boot a Mac from it, and it's slow.

If you want to use FAT32 on a shared USB drive, use Mac OS X's Disk Utility to erase and reformat a hard drive in what Disk Utility calls MS-DOS (FAT).



Mac Desktop in Windows Running a Mac app from Windows over a remote connection can be painfully slow, depending on the speeds of your network and the two machines.

Connect to NAS Macs and Windows PCs can use most any NAS drive over a wired or wireless network; Apple's Time Capsule is actually one of the best choices for shared backup.

The Time Capsule is formatted as a FAT32 drive, so Macs and Windows PCs can both read and write to it. For file transfers, it supports the SMB protocol

network address—**smb://ipaddress**—in the Connect To Server dialog box (⌘-K).

Share External Drive The third way to share storage between Macs and PCs is to plug a USB or FireWire drive into the Mac, and then have the PC use file sharing to back up to it over the network.

The only difference between this and the file sharing described earlier is that

There are three good ways to share a single hard drive between Macs and PCs.

(used by Windows and Linux systems) as well as the Apple Filing Protocol (AFP).

The Time Capsule installer CD-ROM includes Windows versions of AirPort Utility and the Bonjour Printer Wizard, so the PC can set up and manage the Time Capsule and any printer attached to it. No Windows version of Time Machine exists; any Windows backup program should do.

Most non-Apple NAS devices are also formatted as FAT32, but you should check before you buy. You may be able to reformat an NTFS NAS device later. Non-Apple NAS devices usually support SMB file sharing only. If you can't see such a device in the Finder, try typing its

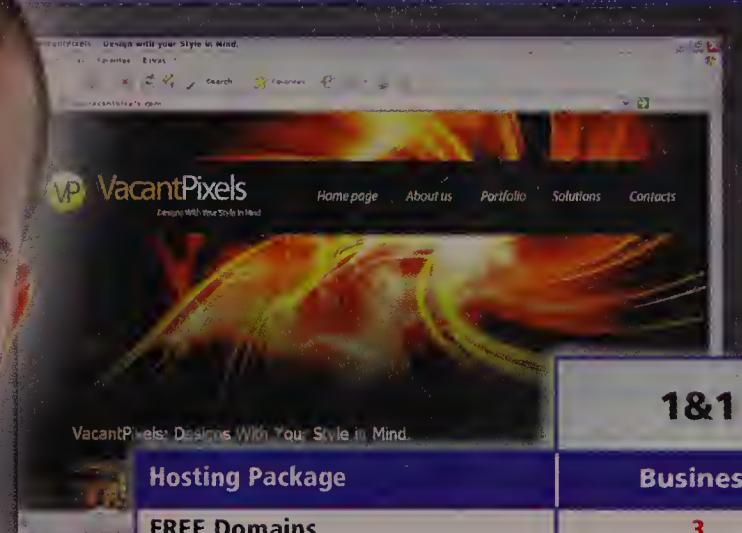
you must specify the external drive on the Mac while the drive is connected.

To do so, open the Sharing pane in System Preferences. Select File Sharing in the left column. Click Options, make sure SMB is selected, and then click Done. Back in the Sharing pane, click the plus-sign (+) button under the Shared Folders column. In the left panel, select your Mac and then select the external USB drive. Click the plus-sign button. You can now set the read/write privileges for the shared drive.

John Rizzo is the author of *Snow Leopard Server for Dummies* (Wiley, 2009) and the publisher of MacWindows.com.

QUALITY

WEB HOSTING AT THE BEST PRICE!



**6 MONTHS
50% OFF
ON THE 1&1 BUSINESS PACKAGE***

Hosting Package	1&1	Network Solutions	Go Daddy
FREE Domains (.com, .net, .org, .info, .biz)	3 (for the life of your package)	1 (first year only)	—
Monthly Transfer Volume	Unlimited	3,000 GB	Unlimited
Mailbox Size	2,000 MB	1,000 MB	1,000 MB
Private Domain Registration	FREE	\$9.00/year	—
Search Engine Submission	✓	✓	Extra charge applies
Money Back Guarantee	90 days	30 days	—
Special Offer	6 MONTHS 50% OFF	—	—
Price Per Month	\$9.99 \$4.99 for 6 months*	\$9.96	\$14.24
First Year Hosting Total (with discount)	\$89.91/year	\$128.52/year	\$170.88/year

"Working with startup companies on a tight budget, my clients know an online presence is needed. I use 1&1 exclusively to satisfy their requests for reliable hosting at affordable rates."

Lance Ochs; www.vacantpixels.com

HURRY, SPECIAL OFFER VALID THROUGH APRIL 30, 2010!



**99.9%
Uptime!**



**90-Day Money Back
Guarantee!**



**24/7 Toll Free
Support**

More special offers are available online. For details, visit www.1and1.com

*Offer valid through April 30, 2010. 12 month minimum contract term applies. Setup fee and other terms and conditions may apply. Visit www.1and1.com for full promotional offer details. Program and pricing specifications and availability subject to change without notice. 1&1 and the 1&1 logo are trademarks of 1&1 Internet AG, all other trademarks are the property of their respective owners. © 2010 1&1 Internet, Inc. All rights reserved.

1&1

Call **1-877-GO-1AND1**

Visit us now **www.1and1.com**



RUNNING WINDOWS ON A MAC

What's the best way to run Windows on your Mac? Depends on what you want to do. **By Rob Griffiths**

Last year, I compared the three major virtualization programs for OS X (which enable you to run other operating systems, including Windows, on your Mac): VMware Fusion, Parallels Desktop, and VirtualBox (macworld.com/4301). Back then, I concluded that your choice of virtualization app depended almost entirely on why you wanted to run another operating system on your Mac.

Since then, all three programs have been through major upgrades. So I thought it was time to take a look at the latest versions of these programs—Fusion 3.0.1 (macworld.com/5884), Parallels Desktop 5 for Mac (build 9308; macworld.com/5885), and VirtualBox 3.1.2 (www.virtualbox.org)—and see if I needed to update that advice.

My conclusion: The advice still holds. I can't tell you how well each app will work in every case. But read through the following scenarios and find the one(s) that best describes your needs. That will tell you which virtualization program I'd recommend in that case. But don't rely solely on my advice; you can download and try all three programs for free.

I don't have time to read all of this! Just tell me which one is best!

In that case, the answer is, "Take your pick." All three are perfectly good apps.

VirtualBox is the best—meaning the *only*—solution if you don't want to spend any money, as long as you don't need fancy graphics and don't want to play Windows games. Fusion is the best option if you need to use many different operating systems or if you want a program that's easy to use. Parallels is best if you want speed and as many bells and whistles as you can get.

I need to run the Windows version of Microsoft Office.

All three programs will handle any version of Office just fine. If you aren't working with gargantuan Excel models or PowerPoint presentations, VirtualBox may be all you need; in my testing, it handled basic Office tests without a problem. But if you do choose VirtualBox, be warned: It's harder to set up and configure than Fusion or Parallels, and it doesn't support some features (such as drag-and-drop or shared clipboards) that they do.



If your data models or presentations are more complex, you might prefer Parallels or Fusion, which are measurably faster than VirtualBox at most tasks.

I want something that's easy to use and stable.

Of the three programs, I find Fusion to be the easiest to use. It has a polished feel; and while it has plenty of features, they're all relatively easy to find and use. Parallels has more features, and they're harder to find and configure.

Parallels also defaults to a "fully shared" Windows installation. That is, the default view is Coherence mode, in which Windows and OS X files and folders are freely shared between the two OSs. This could have security implications (see "The Security Question"). Fusion is more conservative; its default setup isn't fully shared.

Fusion software updates are more reliable. When VMware releases a new version of the program, I feel confident that it will work without problems. Parallels updates seem not to have been fully tested prior to release. For example, a recent Parallels 5 update (build 9310) was actually slower in some tests than build 9308, the one we benchmarked for

How We Tested

When I compared virtualization apps last year, many readers told me they wished I'd done more performance testing. So this year I did.

Macworld Lab ran (or attempted to run) the WorldBench (macworld.com/5887) Windows benchmark test on each of these programs. And I ran my own suite of benchmarks to gauge other aspects of performance. I conducted my tests with four variations of Windows (including XP Pro and Windows 7) on a 2.66GHz Mac Pro with 8GB of RAM and a fresh install of Mac OS X 10.6.2. Newer desktops should match or exceed these speeds.

For the full results, see "Virtualization: Performance Testing" (macworld.com/5886).

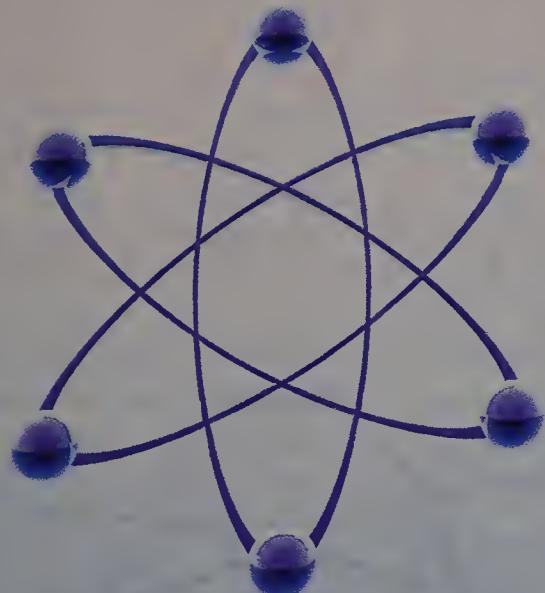
Drive Genius 3

MORE POWER • MORE SPEED • MORE OPTIONS

Repair • Sector Edit • Information • Initialize • DriveSlim® • Benchtests • Shred • Clone • Integrity Check

NEW & IMPROVED FEATURES!

Drive Genius 3



Maintain, Manage & Optimize
Your Hard Drive

SPEED
LIMIT
64
bit

PROSOFT

Prosoft Engineering, Incorporated



DrivePulse®

Monitors the overall health of your drive, alerting you to possible issues before they become major problems.



64-bit

Runs as a 64-bit application on Mac OS 10.6 or later with a compatible 64-bit processor.



Enhanced Defrag

Provides even better defragmentation of your files and even more fragmentation information in a new user interface.



RAID Support

Support for hardware RAID and Apple's software RAID.



Enhanced Repartition

Add, delete, hide, expand or shrink OS X partitions so you can organize your drive more efficiently.



Scan

Realtime bad-block scanning and an extended block verification test that stress tests the read/write validity.



Email Notifications

E-mail notifications can be sent when long-running tasks complete and you are away from your computer.



SHIPS ON
BOOTABLE DVD!

DRIVE GENIUS 1 & 2 AWARDS!!!



PROSOFT

engineering, inc.

303 Ray Street - Pleasanton - CA - 94566

1-877-477-6763

www.prosoftengineering.com



Full-Screen Title Bar In Fusion's full-screen mode, this option makes it easier to access the Virtual Machine and Window menu items.

this review. That's not the first time we've seen such glitches. If you choose Parallels, be cautious about installing upgrades.

I want to use the version of Windows that I installed via Boot Camp on my Mac.

Both Fusion and Parallels can see and use the Boot Camp Windows installation as a virtual machine; VirtualBox cannot. I used Fusion with the Boot Camp partition on a Mac Pro, and Parallels with the Boot Camp partition on a MacBook Pro, and I didn't experience any problems with either. Some Parallels users with Mac Pros and multiple internal drives have reported issues trying to use their Boot Camp partition.

But I don't think Boot Camp support is as important as it once was. You might need Boot Camp if you want to play leading-edge 3D games, run applications that are *really* CPU- and graphics-intensive, or have a piece of hardware the

virtualization apps don't support. But otherwise, I think virtualization is the best solution.

I want to play 3D games in Windows.

As I just said, you'll get the best Windows gaming experience running in fully native Windows with Boot Camp.

If you'd rather not reboot to play, Parallels 5 is your best bet—with one caveat: In most games, I couldn't see any real difference between the visuals in Fusion and Parallels. But when there were exceptions, Fusion looked best.

Otherwise, I was amazed at how well Parallels 5 ran complex, modern games like Call of Duty 4 (callofduty.com). (Granted, I had to turn the graphics complexity way down.) Parallels had only minor problems with older games. While Fusion played most of those older games too, it did so at a lower frame rate, and I couldn't coax a decent result out of it when testing Call of Duty.

My Windows application needs every bit of CPU power it can get.

Parallels supports the most virtual CPUs (eight), so it would seem to be the logical choice for CPU-intensive applications. Fusion can actually use more CPU power than OS X assigns it; when I played a Windows HD video file on a

single-CPU Windows machine, for example, CPU utilization exceeded 100 percent. But for now, Fusion is limited to four virtual CPUs, compared with Parallels' eight.

I want to experiment with lots of different operating systems and Web applications.

If you want to try out some new OSs and applications, Fusion is still best. The company's Virtual Appliance Marketplace (www.vmware.com/appliances) features over 1300 bundles containing ready-to-use operating systems, applications, and combinations of both. You download the appliance you want to use, launch Fusion, and point it at the downloaded file; Fusion takes care of the rest. It doesn't get much simpler than that.

Parallels offers appliances, too, but its library (macworld.com/5883) contains only 87 titles, as of this writing. Both VirtualBox and Parallels can import VMware appliances. However, in both programs it takes a bit of effort to import and set up the virtual machine. With Fusion, the process is as easy as downloading and opening the virtual machine you'd like to use.

I want to use a program based on OpenGL in Windows or Linux.

All three virtualization programs offer some form of OpenGL acceleration, but only Parallels offers it in Linux and all recent versions of Windows. Parallels also had the fastest OpenGL acceleration, and did a good job with the visual

Fusion 3.0.1



PROS: Polished; improved OpenGL 2.0 support; works well with multiple monitors; polished interface; excellent Windows media playback; in-app upgrades.

CONS: No OpenGL 2 in Windows 7; can't use more than four CPU cores; some file operations are slow.

PRICE: \$80; upgrade, \$40

COMPANY: VMware, www.vmware.com



Parallels Desktop 5 (build 9308)



PROS: Very fast; good DirectX and OpenGL support; feature-rich; cleaner installation than prior releases; Multi-Touch support.

CONS: Upgrades can be unreliable; complex interface; defaults to fully integrated OS X/Windows mode.

PRICE: \$80; upgrade, \$50

COMPANY: Parallels, www.parallels.com



VirtualBox 3.1.2



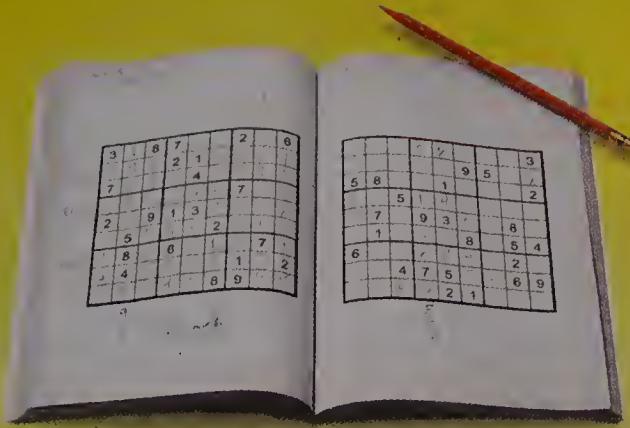
PROS: Inexpensive; OpenGL acceleration for Linux and OpenSolaris; multiprocessor support; basic 3D graphics.

CONS: No easy installation wizards; time-consuming Windows 3D setup; no OpenGL 2.0 in 64-bit Windows; poor HD video playback; buggy.

PRICE: free

COMPANY: Sun Microsystems, www.virtualbox.org





FUN LIKE SUDOKU *except you end up* SPEAKING JAPANESE.

Watch anyone solving a Sudoku puzzle and you see a brain on fire: eyes transfixed, pencil (or pen for the audacious) skittering across the squares, a number scribbled in place, done! Surprisingly, what looks like work is actually fun. Not so surprising say cognitive scientists because your brain loves solving puzzles. That's how it learns. It thrives on the bursts of pleasure that are part of the brain's reward system when you solve problems and challenges.

At Rosetta Stone, we get the link between language learning and problem solving. Every screen in our full-immersion programs presents an elegant language puzzle with just the right level of challenge to make learning effective and fun. Using Intelligent

Sequencing™ we combine language you already know with powerful visual clues to help you solve new language meaning intuitively — all without translation. And our sophisticated speech technologies have you speaking from the start — in Japanese or any of our 31 languages. Rosetta Stone® software is your language-learning solution. Let the fun begin!

SAVE 10% WHEN YOU ORDER TODAY

Level 1

Reg. \$229 **\$206**



Level 1,2&3

Reg. \$539 **\$485**

Level 1,2,3,4&5

Reg. \$699 **\$629**

WIN/MAC compatible.

Six-Month, No-Risk, Money-Back Guarantee.*

Arabic | Chinese (Mandarin) | Danish | Dutch | English (American) | English (British) | Filipino (Tagalog) | French | German | Greek | Hebrew | Hindi | Indonesian | Irish | Italian | Japanese | Korean | Latin | Pashto | Persian (Farsi) | Polish | Portuguese (Brazil) | Russian | Spanish (Latin America) | Spanish (Spain) | Swahili | Swedish | Thai | Turkish | Vietnamese | Welsh

Call or go online
(877) 219-8376
RosettaStone.com/ozs050

Use promo code ozs050 when ordering.

RosettaStone®

effects in Ubuntu Linux. Parallels is the clear winner here.

I'd like to run OS X Server in a virtual machine.

Both Parallels and Fusion support

virtualized OS X Server installations. I was able to get an evaluation copy of Server up and running in both Parallels and Fusion. However, I'm not a Server expert (more like a rank amateur), so I can't evaluate how well the two programs

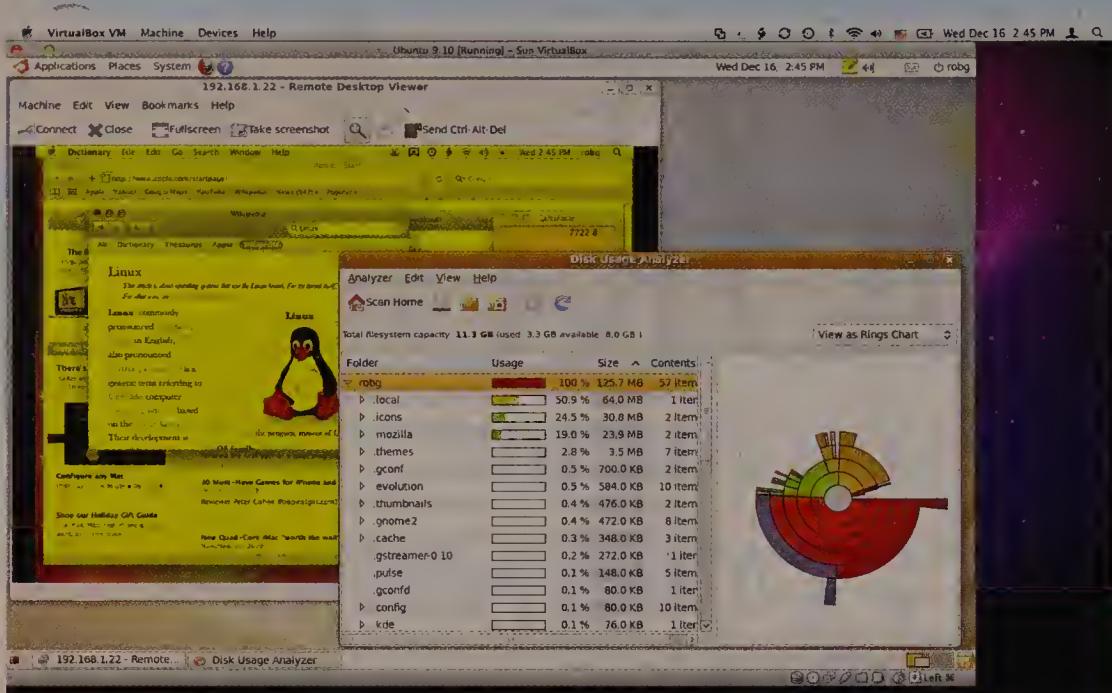
handle it. Your best bet, assuming you know your way around OS X Server, is (again) to download the trial versions and see how well they work.

I want to watch high-definition Windows video files.

I'd be hard-pressed to pick a winner here. Both Parallels and Fusion handled my 1080p high-definition test file well in all versions of Windows. (I tested playback in Windows 7, with the video set to play on the full screen.) Fusion used slightly less computing power while providing equally good playback, but both programs are worth considering for HD video playback. VirtualBox still has issues running HD video in anything other than Windows XP Pro.

I need to use a really rare hardware peripheral in Windows or Linux.

I can't answer that one: There's no way I could test even a small percentage of the hardware out there. I can tell you that I



Ubuntu Linux on a Mac While VirtualBox will let you run many operating systems, installing and configuring them isn't as easy as it is in Parallels or Fusion.

EazyDraw Version 3.3

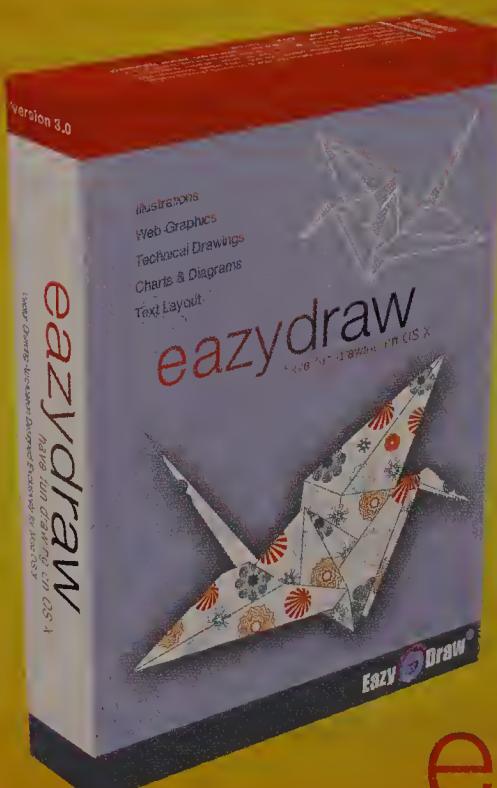
WebColorPicker

A RGB / hexadecimal plugin for your Mac OS X color panel.



www.WebColorPicker.com

As Apple especially Mac users need to draw with EazyDraw, use with Mac OS X.



Now With SVG

Illustrations
Web Graphics
Technical Drawings
Charts & Diagrams
Logo Design
Text Layout

eazydraw

have fun drawing on OS X

www.eazydraw.com or call 608.444.5245

had no trouble with simple stuff, such as joysticks and gamepads, in either Parallels or Fusion. (I didn't test them in VirtualBox due to its limited gaming support.) If you've got a peripheral that absolutely must work in your virtual operating system, you should download and test each program yourself.

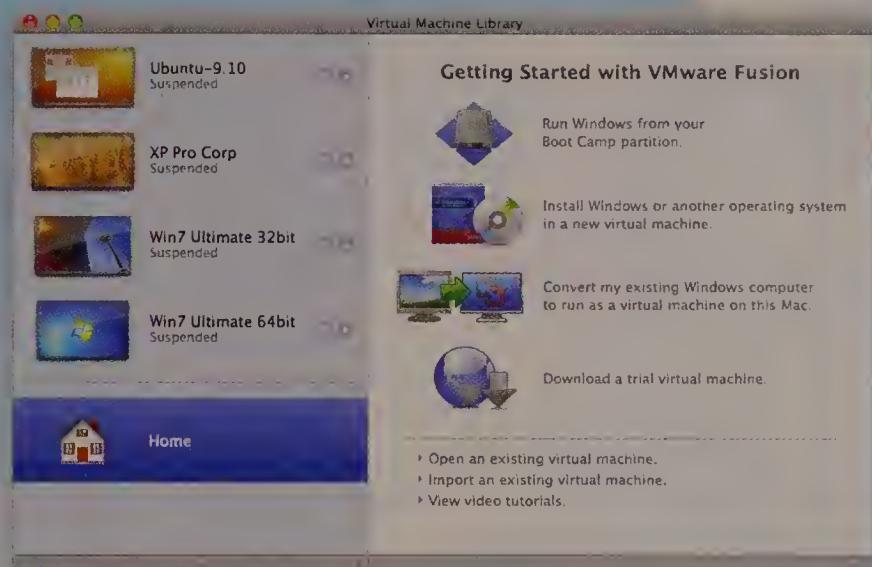
I want to do everything—run Windows games and Office apps, experiment with new OSs, and watch high-definition video.

You weren't satisfied with my "they're all the best" answer up top, were you? OK, if forced to pick just one virtualization application to use today, I would pick (narrowly) Parallels over Fusion, with VirtualBox in the more-distant third spot.

Parallels is the undisputed speed king, it supports a wide variety of Windows games (an avocation of mine), has OpenGL acceleration available almost everywhere, and offers a ton of

features. However, that feature load makes it a bit more complex than Fusion, and its Coherence and Crystal view modes aren't as well integrated with OS X's windowing system as is Fusion's Unity. Also, you'll need to do more work to experiment with new virtual machines, beyond the 87 Parallels provides.

Fusion does have a clearer interface and a huge library of virtual appliances; it isn't too shabby at gaming, either. Still, when I consider overall performance, feature set, and 3D gaming support (probably the



Virtual Machine Library Fusion's revised Virtual Machine Library panel shows you the state of all your installed virtual machines, with a real-time preview of each active one.

tiebreaker), Parallels 5 is my pick as the cream of the current crop—but just barely. Both are excellent programs; you won't go wrong with either one.

Rob Griffiths is a senior contributor to *Macworld*.

dexim™ *Put your dreams in life.*

www.dexim.net

P-Flip™ Foldable Power Pack
for BlackBerry 9630/9000/8900

UP TO 6 HRS TALK TIME/
18 DAYS STANDBY TIME

Includes 3 Interchangeable cradles



Tour 9630 Curve 8900 Bold 9000



dexim DCA152

P-Flip™ Foldable Power Dock
for iPhone 3GS/iPhone 3G/iPod Touch

UP TO 8 HRS TALK TIME/
15 HRS VIDEO/GAME / 60 HRS MUSIC



Made for iPod

Works with iPhone

P-Flip™

* Battery life will vary depending on model

2000mAh Lithium Polymer Battery
Charge & Sync **iPhone 3GS/iPhone 3G/iPod Touch (DCA132)**
Charge **BlackBerry 9630/9000/8900 (DCA152)**



Google is getting into everything these days. Having

branched out long ago from its core business of providing search services (and selling ads against the results), it now has its e-mail service (Google Mail, aka Gmail), its online productivity suite (Google Docs), an RSS feed reader (Google Reader), a calendaring app (Google Calendar), and way, way more.

There's a question, though: Can Google really bring the same level of expertise to all of these other ventures that it brought to search and online ads? That's the question we posed to several of our writers: Explain your favorite (or, in at least one case, your least favorite) Google service, show us how it works, and give us some tips on making it useful.

Google may dominate the Internet the way Microsoft once dominated the desktop. But that doesn't mean you can't take what's good and useful from it—and leave the rest behind.

IT'S A GOOGLE WORLD

From Calendar and Docs to Voice and Wave—make your Mac work with it all

ILLUSTRATION BY
QUICK HONEY





CALENDARS AND CONTACTS IN THE CLOUD

Use Google to sync the data on your Macs and iPhone

BY JOE KISSELL

If you have two or more Macs, or an iPhone or iPod touch, you'll undoubtedly want to keep your contacts and calendars on all your devices in sync. One way to do so is to use Apple's MobileMe service (\$99 a year for individuals; \$149 for the five-user Family Pack; www.apple.com/mobileme).

But what if you don't want to pay for MobileMe, or if you simply prefer using the free Google Contacts and Google Calendar (both accessible from any Gmail account)? Google uses Exchange ActiveSync—which provides over-the-air push e-mail, contact, and calendar data, just as MobileMe does—to let your iPhone or iPod touch connect to your Gmail account (either with a `gmail.com` address, or an address at your own domain via Google Apps). Meanwhile, Snow Leopard contains native support for Exchange 2007 servers in Mail, Address Book, and iCal, and Microsoft Entourage also supports Exchange accounts.

Although the iPhone and iPod touch work well with Google's Exchange services, the same isn't true of current desktop Mac software. You can sync your Google Contacts and Calendars with Address Book and iCal, respectively, but not by using Exchange ActiveSync. As a result, syncing isn't instantaneous or automatic. Likewise, Entourage can tie into Mac OS X's Sync Services to achieve syncing with Google Contacts and Calendars, but only in a roundabout way.

Nevertheless, you can replicate *most* of what MobileMe offers for contact and

calendar syncing by using Google's services and Snow Leopard. However, I do want to mention a few qualifications up front. First, the process I describe here is for syncing a single person's data among multiple devices, not for syncing information among multiple users. Second, on an iPhone or iPod touch, this procedure uses Exchange ActiveSync, but the iPhone OS currently supports only one Exchange account per device. So, if you already use Exchange for another purpose (such as connecting to your corporate e-mail account), this method won't work. And third, although most contact and calendar data syncs between

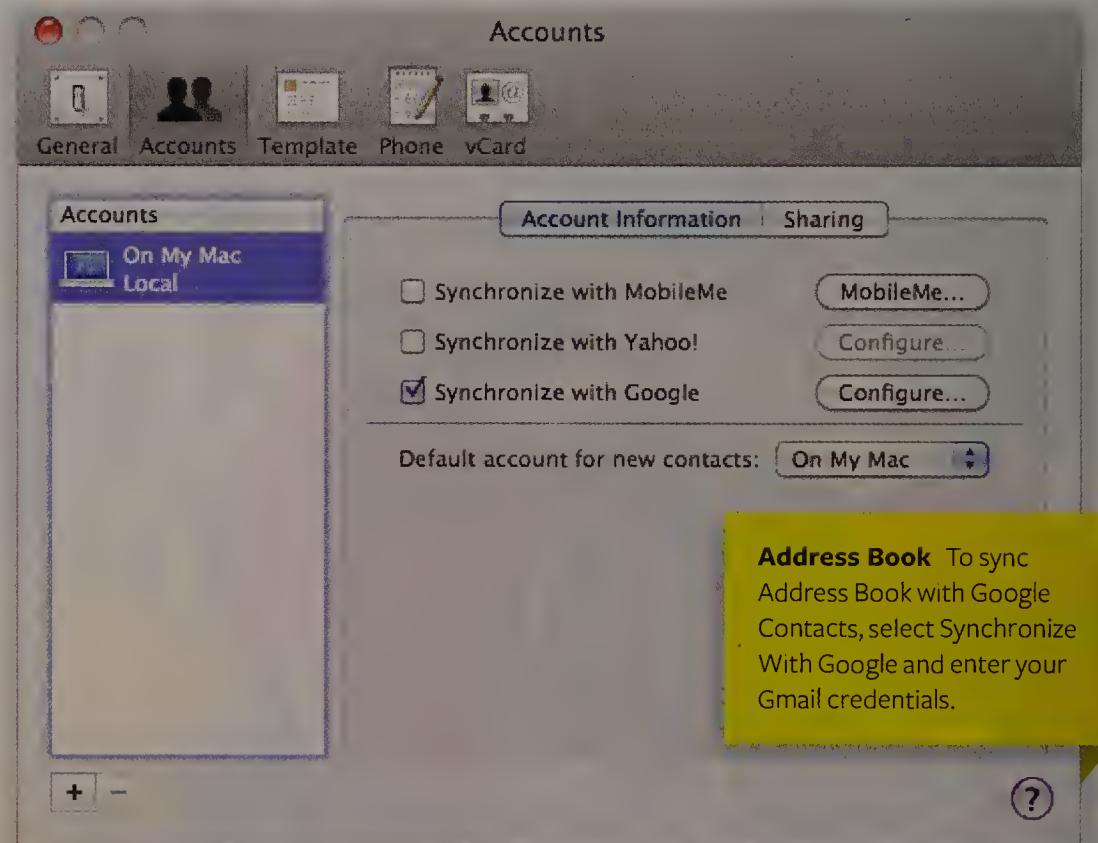
Mac applications and Google just fine, a few items (including Address Book groups and the "floating" time zone in iCal) do not.

Preliminary Steps

Before changing your sync settings, you should perform a few preliminary steps.

First, be sure to back up your contact and calendar data so that if anything goes wrong, you can restore it to its previous state. Use **File** ▶ **Export** ▶ **Address Book Archive** or **File** ▶ **Export** ▶ **iCal Archive** for Address Book and iCal, respectively. For Entourage, select **File** ▶ **Export**, select **Items To An Entourage Archive** and then **All Items**. In the **Archive The Following Item Types** section, select the **Local Contacts** and **Local Calendar Events** items (you can deselect the other checkboxes) and click the right arrow. Leave the **No, Keep The Items In Entourage After They Are Archived** option selected and click the right arrow again. If you're using an iPhone or iPod touch, attach it to your Mac using its USB cable or dock and allow it to sync before proceeding.

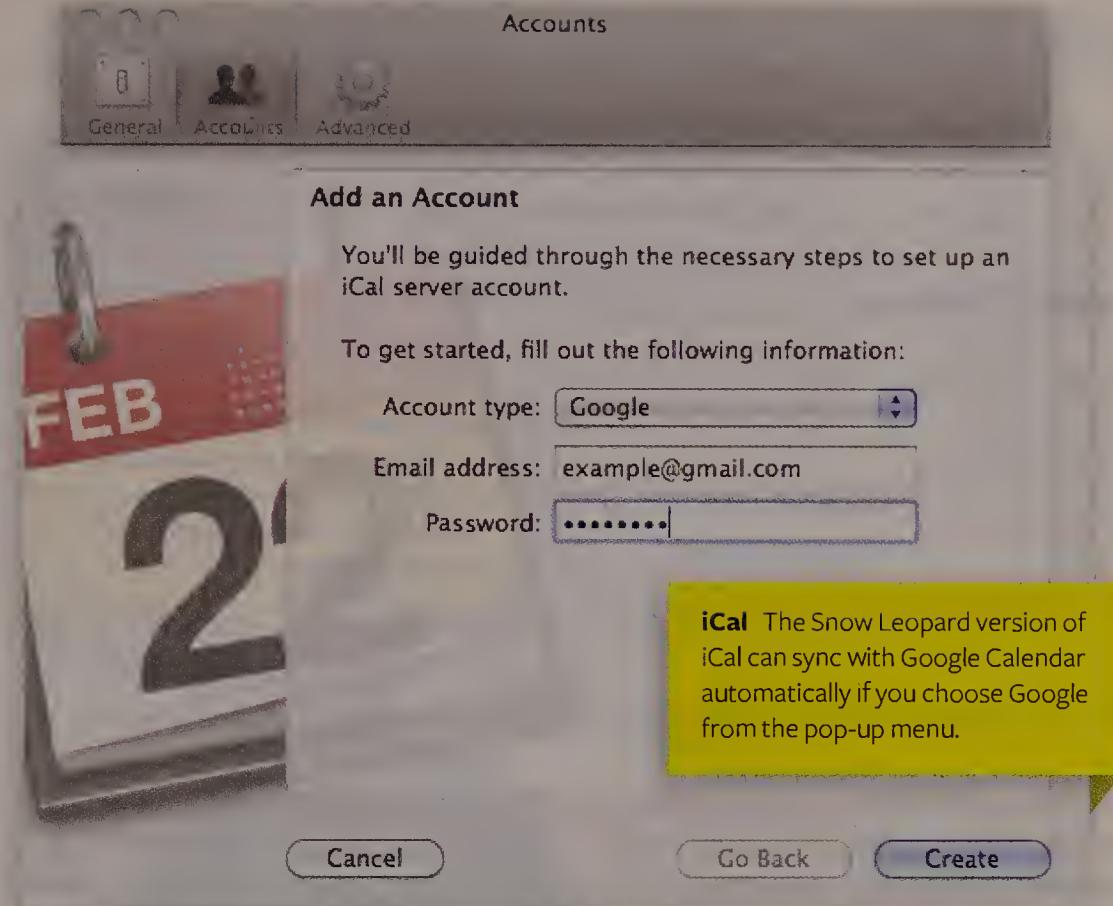
If you're using Google Apps (for a custom domain name), make sure you've enabled Google Sync for your domain by following Google's instructions (macworld.com/5921).



Finally, if you're a MobileMe user, I suggest turning off MobileMe syncing for contact and calendar data, because that will simplify setup and troubleshooting. To do so on your Mac, open the MobileMe pane in System Preferences, click the Sync tab, and deselect the checkboxes for Contacts, Calendars, or both. On an iPhone or iPod touch, go to Settings ▶ Mail, Contacts, Calendars, tap your MobileMe account, and turn Contacts, Calendars, or both off. When you do so, your device asks whether you want to keep or delete the existing contacts or calendars on your device. If you're certain that the data on your Mac is correct, up-to-date, and backed up, you can reduce the chance of duplicates by tapping Delete From My iPhone.

Sync Contacts with Address Book

To sync Address Book with Google Contacts' My Contacts list, open Address Book's preferences, click Accounts, select On My Mac in the Accounts list on the left, and then click the Account Information tab. Select the Synchronize With Google checkbox,



and then click Configure. In the dialog box that appears, enter your Gmail address and then your password in the Password field (don't worry if you see a warning that Address Book can't

verify the identity of the server).

Next, make sure the Sync menu (an icon with two arrows arranged in a circle) appears in your Mac's menu bar. If not, open the MobileMe pane in System

GOOGLE DOCS STORAGE

There's a new option when you log in to Google Docs: an Upload button, which allows you to upload files for online storage, a feature MobileMe (www.me.com) and Dropbox (www.dropbox.com) also provide. But how does it compare to those services?

The Good

When you upload a document to Google Docs, you can choose to convert it from one format to another. Supported formats include HTML, plain text, and Microsoft Word, PowerPoint, and Excel. Neither Dropbox nor MobileMe offers file conversion.

Google Docs also allows you to share folders containing any mix of files. (You can also share just individual files.) Dropbox lets you share folders, but only

files in its Public folder can be shared. (Dropbox also lets you view and share folders of photos.) MobileMe lets you share a link to any file, but only allows public access to a Public folder, which you have the option of password-protecting.

You're limited to 1GB of Google Docs storage altogether, and no individual uploaded file may be larger than 250MB. Google lets you purchase more storage, but treats it as a combined overflow for three services: Docs, Picasa photo albums (above 1GB), and Gmail (above roughly 7GB). Storage is allocated to whichever of these services (if any) go over the included amounts. Fees start at \$5 per year for 20GB of additional storage and \$20 per year for an 80GB add-on. Plans can be had at various increments, to as high as 16TB for \$4096 per year.

Dropbox and MobileMe offer more modest storage (up to 100GB and 80GB, respectively) at far higher prices.

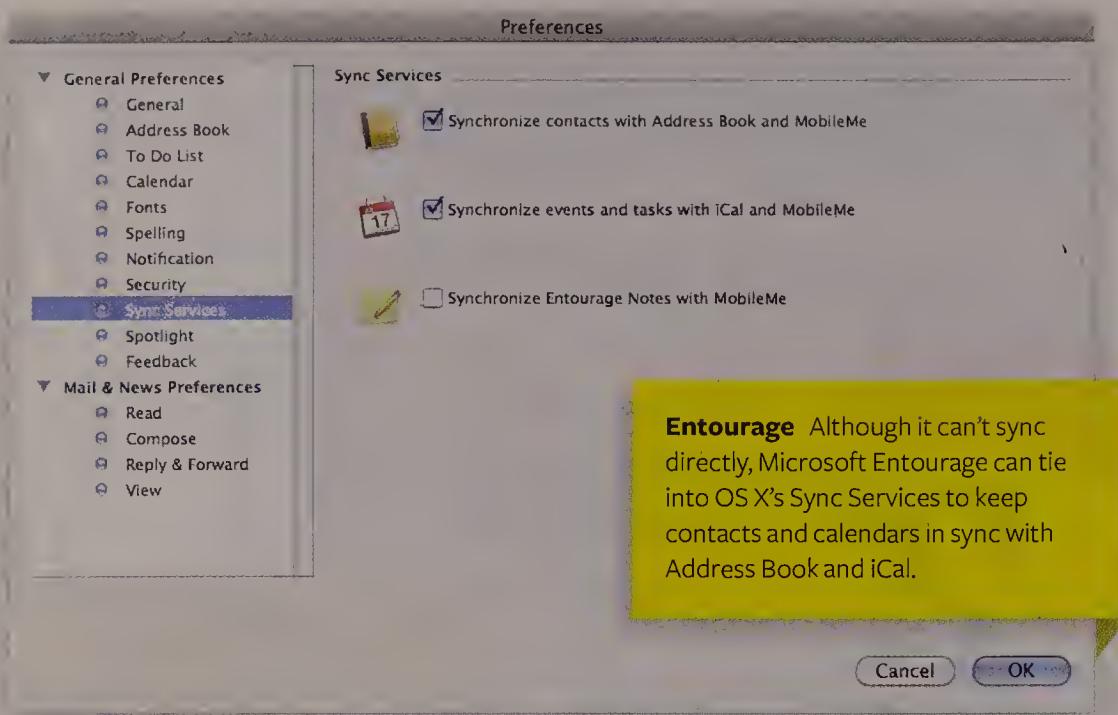
Google doesn't restrict bandwidth, instead relying on the squishy statement

that it "includes plenty of bandwidth for ordinary use." MobileMe includes tiered bandwidth based on the amount of storage (starting at 200GB per month for a basic account that comes with 20GB of storage), while Dropbox monitors for "unusual amounts of bandwidth usage" for publicly linked files.

The Not-So-Good

In testing, I received some error messages saying that the Google Docs service was having trouble communicating with the server. Restarting my browser solved the problem.

More seriously, unlike Dropbox and iDisk in MobileMe (which let you access your files via Web, iPhone, and desktop interfaces), Google offers Web access only. But Google does provide a programming interface that developers could use to provide access to the Google upload space from within apps, or could mount as a volume in the Finder.—GLENN FLEISHMAN



Entourage Although it can't sync directly, Microsoft Entourage can tie into OS X's Sync Services to keep contacts and calendars in sync with Address Book and iCal.

Cancel OK

Preferences, click the Sync tab, and select the Show Status In Menu Bar checkbox at the bottom. Choose Sync Now from the Sync menu. If the Conflict Resolver window appears, click Review Now, decide which version of each contact to use, and then click Sync Now. OS X should now sync changes once per hour, although you can use the Sync Now command to sync manually. (For more frequent syncing, try the \$25 Spanning Sync [spanningsync.com], which syncs every time you modify a contact or as often as every 10 minutes.) Repeat this procedure with each Mac you want to sync.

Sync Calendars with iCal

To sync iCal with Google Calendar, open iCal, choose iCal ▶ Preferences, click on Accounts, and click the plus (+) button. Choose Google from the Account Type pop-up menu, and enter your full e-mail address (whether ending in @gmail.com or your custom domain) and your password, and click on Create. Your primary Google calendar then appears in iCal. To sync additional Google calendars, click the Delegation tab in the Preferences window and select the Show checkbox for one or more calendars.

Note that this procedure syncs existing Google calendars with iCal, but not the other way around. To move your existing iCal data into Google Calendar, find one of your calendars in Google on the left

side of the screen, click the Settings button beneath it, click Import Calendar next to the Create New Calendar button, and then in the dialog box that appears, click Browse, navigate to the iCal backup file you created earlier, and select it. In the Import Calendar dialog box, select the calendar to which you'd like to add the events (if you have more than one) from the Calendar pop-up menu and then click the Import button.

By default, iCal syncs with Google Calendar every 15 minutes, but you can change the interval if you prefer. To do so, click on the Account Information tab



in the Preferences window and choose a new value from the Refresh Calendars pop-up menu. As with contacts, repeat this procedure on each of your Macs.

Sync Contacts and Calendars with Entourage

If you use Entourage to store your contacts and calendars, you can't sync directly with Google Contacts and Calendars, but you can sync indirectly. First, follow the procedure for setting up syncing with Address Book or iCal and Google Contacts or Calendars (even if iCal or your OS X Address Book is empty). Then, in Entourage, choose Entourage ▶ Preferences, select Sync Services under General Preferences in the list on the left, select Synchronize Contacts With Address Book And MobileMe and/or Synchronize Events And Tasks With iCal And MobileMe, and then click OK. In most cases, if you use only Entourage for contacts and calendars, then choose Delete Information From Macintosh Address Book, iCal, And MobileMe in the dialog box that appears.

Sync Contacts and Calendars with an iPhone or iPod Touch

To sync your contacts and calendars, you must be using iPhone OS 3.0 or later. Go to Settings ▶ Mail, Contacts, Calendars and tap Add Account at the bottom of the Accounts list. Tap Microsoft Exchange, and enter the full e-mail address associated with your Google account and your password; leave Domain blank. Tap Next. If an Unable To Verify Certificate message appears, tap Accept. In the Server field, enter **m.google.com**, and tap Next again. Make sure Contacts and Calendars are turned on (plus Mail, if you want to sync your Gmail e-mail) and tap Done. When prompted to choose how to handle existing data, tap Delete. Synchronization begins momentarily, and everything happens wirelessly.

Senior Contributor **Joe Kissell** is the senior editor of TidBITS and the author of numerous e-books (www.takecontrolbooks.com) about Mac OS X.

Type Less. Create More.

Effortlessly insert frequently-used words, phrases and graphics, by typing short abbreviations. Great for email, blogging and more!

thx

chk

mysig

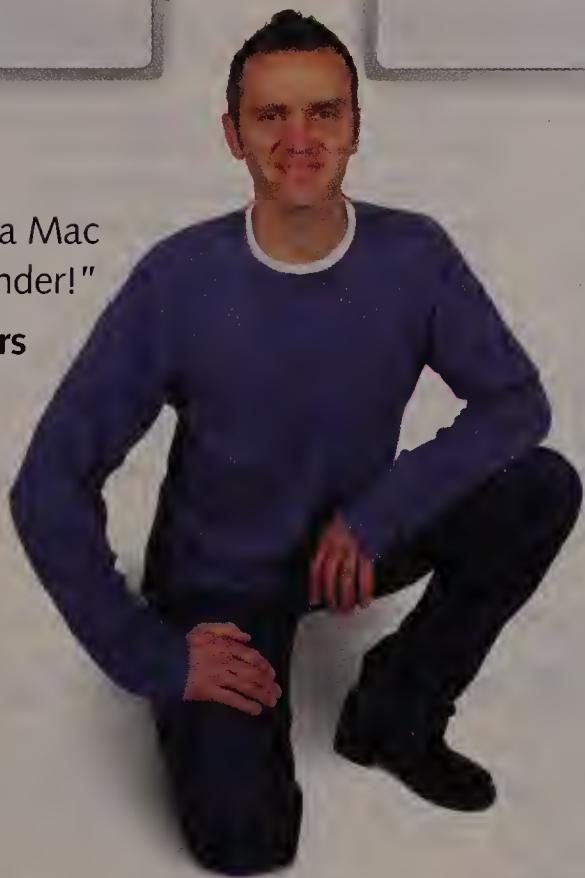
Thanks for your interest in
our creative services.

Check out our portfolio at:
www.lapis-design.com

*Michael Fetters
Lapis Design*

*"I can't work on a Mac
without TextExpander!"*

Michael Fetters
Mac user



textexpander

*New!
Version 3*



Download a trial version of TextExpander today...

www.smileonmymac.com/expand



Smile
on my mac



disclabel



PDFpen



pagesender



textexpander



WHY I DON'T USE GOOGLE DOCS

The online suite is good for collaboration—but not much else **BY ROB GRIFFITHS**

When you need to collaborate with colleagues on word processing documents, spreadsheets, or presentations, Google Docs (docs.google.com) is an excellent choice. But a surprising number of people have suggested to me that Google Docs could also replace Microsoft Office or iWork as my everyday desktop productivity app. After using Google's online suite extensively, I just don't think that's the case; it simply has too many shortcomings. These five are the most serious.

It's in a Browser

Google Docs is not a suite of applications. It's a set of Web pages. As such, its abilities are limited by the capabilities of your browser.

Want to open two documents side by side? You could open two browser windows, but then you'd have two instances of your browser environment, rather than two document windows.

If you're browsing in one tab and working in another, you can't use ⌘-Tab to switch from one app (your browser) to another (your word processor); you have to navigate your browser's tabs instead. Playing a Flash

game in one tab while working on a presentation in another? Better hope the Flash doesn't crash and bring down your documents with it.

User Interface

Open a Google Docs app and you'll know immediately it's a real OS X application. It looks and feels completely different.

Bad Menus Because Google Docs menus use a plain-text font and have no drop shadow, they can be hard to distinguish from the document in the background.

FINANCING

	2002 CRV	178.€
1		66.2€
2		70.2
3		103.1
4		334.7

Take the menus. Menu headings on the menu bar appear in a plain-text font, making them hard to distinguish from the background. Clicking on one of the headings opens a menu—but, again, its text can be indistinguishable from what's behind it. The menu's lack of a drop-shadow doesn't help.

Below the menu bar, a row of icons appears in a toolbar. But you can't customize the toolbar, nor can you move or resize it. Also, there aren't any floating palettes; everything is done via the menus, the toolbar, or a contextual menu that appears when you Control-click.

Creating a chart in the spreadsheet app requires picking a chart type from a pop-up box, then filling out a tedious form. If a formula in Spreadsheet is too long, it wraps, making it harder to edit.

In short, even the worst OS X application has a better user interface than Google Docs.

Feature Set

Compared with any of their desktop alternatives, Google Docs apps lack a number of features.

Want to create a multicolumn word processing document? Sorry, it's single-column only. Want to do a mail merge? Again, not possible.

In Spreadsheet, want to turn off grid lines when printing? Can't do it. How about creating a big spreadsheet? Technically, you can, but you have to manually add rows and columns, because the initial worksheet extends only to column T and row 100. And as long as you like Courier, Georgia, Normal, Trebuchet, or Verdana, you'll be thrilled with the font choices in Google Docs' Spreadsheet app.

Want to create a presentation? There are only 15 themes, and there's no support for animation (moving objects) or builds (layering elements onto your slide over time). Also, you can't create transitions between slides.

Offline Use

To work with your Google documents offline, you need the Safari extension Google Gears. As of this writing, Google

Gears doesn't support OS X 10.6. (Google's own Chrome beta for Mac doesn't yet support Gears, either.) If you're using OS X 10.5 and have the Google Gears extension installed, you can view (but not edit) presentations and spreadsheets; however, you can edit word processing documents.

Given the hassles of working offline, you could instead download a copy of the file (File ▶ Download), edit it offline, and then upload it when you're back online. Just make sure you don't use any features (such as multiple columns) that aren't supported by Google Docs.

Printing

If you choose Print in either Presentation or Spreadsheet, a near-useless dialog box appears. Click Print there, and a PDF file is downloaded to your Mac. In Document, it's even worse; there's no dialog box at all before the PDF file appears.

GOOGLE WAVE EXPLAINED

Google Wave (wave.google.com) is one of the most hyped but least understood services Google has ever launched. Part of the problem is that it has no direct parallel to any other product. As such, it's hard to explain—but let me try.

What Wave Is

Wave enables you and your collaborators to build documents—"waves"—from conversations. Multiple users can edit and chat inside waves at the same time. Wave offers live typing, so you can see your collaborators' input in real time, keystroke by keystroke. You can add images, Web links, video clips, and polls to waves; and with Wave extensions, you'll soon be able to incorporate all kinds of other interactive content.



How to Use Wave

You need an invitation to create an account in the Google Wave preview; you can request one at the Wave home page (wave.google.com) or you can ask a Wave-using associate to invite you. (Mac users can also use

Waveboard [getwaveboard.com], a desktop Wave client that includes Growl notifications and an iPhone application.)

When you sign into Wave, you'll see an inbox, folders, and contacts on the left; unread waves in the middle; and the editing pane on the right.

To start a wave, you click on the New Wave button. You can then enter a title and

Google describes Wave as "what e-mail would look like if it were invented today," in the world of instant messaging, wikis, and online forums. But Wave is more akin to Google Docs than it is to Gmail. How many times have you developed a document by sending it back and forth through e-mail? Wave seeks to do away with that, by providing a single copy that everyone can edit and discuss.

The Bottom Line

Google Docs is great if you have a bunch of people who all need to work on files either at the same time or repeatedly over a period of time. With centralized storage, change tracking, and easy sharing abilities, this is a niche that Google Docs fills perfectly.

But for virtually every other need, I disagree with people who say it can replace Microsoft Office or iWork as an everyday productivity tool. Even a program as simple asTextEdit has features you won't find in Google Docs' word processor. Move up the food chain a bit, and there's really no comparison between either Office or iWork and the Google Docs programs. You get more features, a better interface, and superior integration with the OS by using a native application.

Rob Griffiths is a senior contributor to Macworld.

initial message, and add collaborators from your Contacts list; you can give each person full read-write or read-only privileges.

Each wave is made up of messages, called blips. When you create a new wave, you start by editing its root blip. Anyone else with editing rights can change that blip or add blips below it or inside it.

Blips don't have to appear sequentially; you can also embed one inside another. This way, you can comment on specific bits of content.

To see how a wave has changed over time, you can use the playback feature to go back and forward in a revision's timeline. You can roll back edits (by clicking a Restore button), and you can organize waves by using folders and tags.

The Bottom Line

Google Wave represents an exciting new model for real-time collaboration. It could have all kinds of uses for group chats, collaborative meeting notes, and project management, for example.

But it's not yet ready for production use. It can be unstable and slow in some browsers. But I can't wait to see what it becomes.—GINA TRAPANI



Also, printing in Google Docs isn't WYSIWYG; it's more like WYSISLW-YMG—*what you see is somewhat like what you might get*. Google Docs doesn't have any page view modes. Until you print, you don't know how the document will look.



GOOGLE'S DIGITAL SWITCHBOARD

Google Voice manages incoming phone calls the way Gmail manages e-mail **BY WHITSON GORDON**

Google Voice does for phone calls, voicemail, and text messages what Google has already done for e-mail and chat. Using Google Voice is relatively easy, but setting it up takes time and effort. Here's how to get started with the service.

Collect and Manage Contacts

After you get a Google Voice number (which requires an invitation), your first task is to let people know about it. Send it to contacts via e-mail and text message; change the outgoing messages on your old phones to give callers your new number. Commit to calling people from your Google number only and avoid answering calls on the old ones.

(If you want to keep your old numbers, or if you aren't using a smartphone, you can still use Google Voice by forwarding unanswered calls to it. There are carrier-specific directions in the Phones tab in Google Voice's Settings.)

Next, you should collect and organize your contacts. Google Voice uses Gmail contacts, so be sure to sync your Mac's Address Book with Google: Open Address Book, choose File ▶ Preferences, and check Synchronize With Google in the General pane. That done, set up some Groups; they make managing calls much

easier. For starters, create one for work, one for friends and family, and one for people you'd prefer not to talk to.

Set Up Rules

Once your contacts are set up, you should start creating rules to manage your calls and texts. In the Phones tab in Settings, add the phone numbers you use. Then, in that number's advanced settings, use rules to tell Google Voice how to manage incoming calls, depending on where you are and who's calling.

You can also use the Groups settings to record custom greetings. That way, work contacts can hear a professional "away" message, and friends and family can hear something more personal.

Try Other Tools

If you don't want to keep a Web app open in a tab, you can use a utility like Fluid for Mac (www.fluidapp.com) to run Google Voice on a site-specific browser. If you'd rather not have another app eating up RAM, you can also use extensions for Firefox and Chrome, to be notified of messages and calls.

If you'd prefer to have a dedicated app, there are a few third-party Google Voice clients for the Mac. The best is a dashboard widget called GV Connect (macworld.com/3009). It allows you to send SMS messages and make calls to your contacts in Google or Address Book. If you have Growl installed, you can also receive Growl notifications for SMS messages and missed calls. You can't view your inbox in the widget itself, but it does provide a shortcut to the Web interface.

The App Store rejected an official Google Voice app, so the iPhone does not have a native app like other smartphones. However, Google has created a slick iPhone-friendly Web app (m.google.com/voice) that lets you make calls, view voicemail, and send SMS messages right from mobile Safari.

Whitson Gordon is a contributing writer at Lifehacker.com.

Virtual Voicemail
Google Voice does its best to transcribe incoming voicemails so you can see and organize them in your online inbox.



Meet Susan...
a 42 year old man posing
as a 15 year old girl online.

**"Susan" and your 13 year
old just made plans to
meet at the park.**

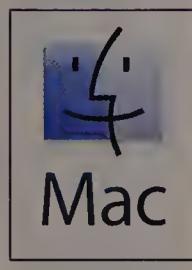
How Did You Know? because... Spector Pro Is Watching

Your child is online now. Sadly, so are the bad guys. Each day, more than 50,000 predators are striking up conversations and trying to set up personal meetings with unsuspecting children through Facebook, MySpace, chat rooms and Instant Message services. How much do you really know about your child's online "friends" and what they're planning?

Monitor and Protect your Children Online with Spector Pro | mac

Make sure your child is safe with Spector Pro, the best selling software for monitoring and recording every detail of their computer and Internet activity. Spector Pro records everything they do on the Mac – their chats, instant messages, emails, the web sites they visit, the keystrokes they type... and much more. Plus, with Spector Pro's advanced screen snapshots feature, you not only see what they do, you see the exact order in which they do it, step by step.

Is there a "Susan" online with your child? Find out with Spector Pro mac, the most widely used and trusted monitoring tool available today.



Take the next step

Call us today at
1.877.288.5702

Visit us online at
www.SpectorProiswatching.com

 **SpectorSoft®**

WHAT'S YOUR PREFERENCE?

Essential system tweaks to make your Mac work the way you do

By Kirk McElhearn

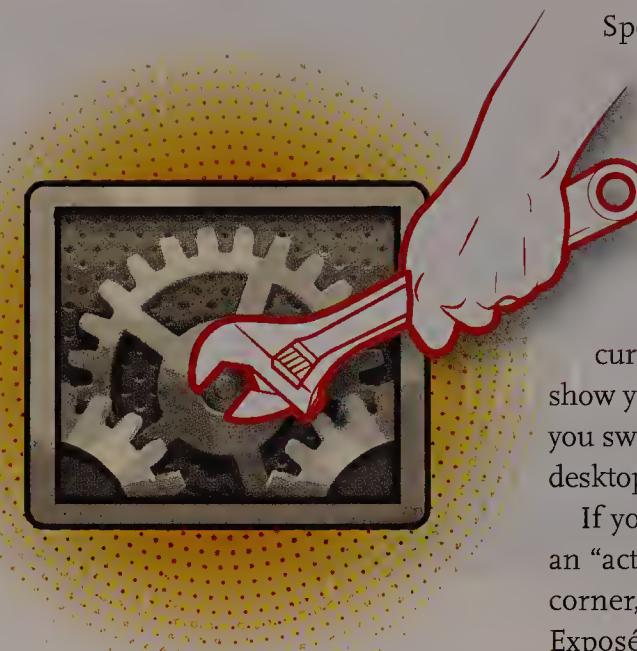
Mac OS X's System Preferences program is the one-stop shop for customizing many aspects of your operating system. Open System Preferences by choosing Apple menu ▶ System Preferences, or by clicking on the Dock icon that looks like a set of gears. Each preference pane is labeled to give you a clear idea of the type of elements it lets you change: Appearance, Spotlight, Displays, Network, and so on. Many of these panes contain settings that can help you save time and make your computing experience better or more efficient.

Hide the Dock

No doubt about it: The Dock is a useful way to access applications, folders, and files, but it also takes up a fair amount of space—valuable space, especially on a laptop. Since you probably don't need to see the Dock all the time, hide it. Go to the Dock preference pane and select the Automatically Hide And Show The Dock option. Now the Dock will remain invisible until you move your cursor to the bottom, left, or right edge of your screen, depending on where you've positioned your Dock. While you're in the preference pane, check out the other Dock options. Here you can change its size, position, and more. It's also easy to access these settings from the Dock itself: just Control-click on the Dock's separator to see a contextual menu.

Display the Date and Day of the Week in Your Menu Bar

If the clock is visible in your Mac's menu bar, you might find that seeing just the time isn't enough. Go to the Date &



Time preference pane, and then click the Clock tab. There, you can make some changes: Choose to show the day of the week, the date, AM/PM, and more. Choosing these options can help you keep track of it all with a simple glance at the menu bar. Back on the Clock tab, you'll also find a setting to have the clock announce the time to you every hour.

Customize Spotlight Search Results

Spotlight, OS X's systemwide search feature, lets you make some changes to the way it provides search results, as well as to the types of items it searches for. For example, do you really need fonts to show in your search results? Probably not. To adjust Spotlight's settings, open the Spotlight preference pane and click on the Search Results tab. If you uncheck any of the items in the list, Spotlight won't search for them (see "Spotlight Results, Your Way"). You can drag these items around to order them the way you want. When you search, the results will display in order in the

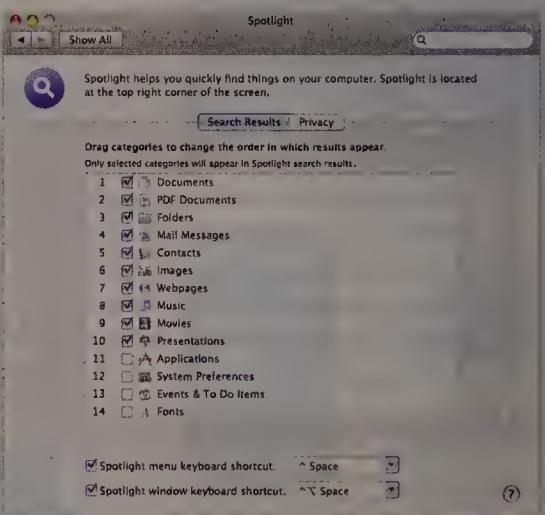
Spotlight menu, which means that the items you look for most often will appear at the top.

Use Your Screen Corners

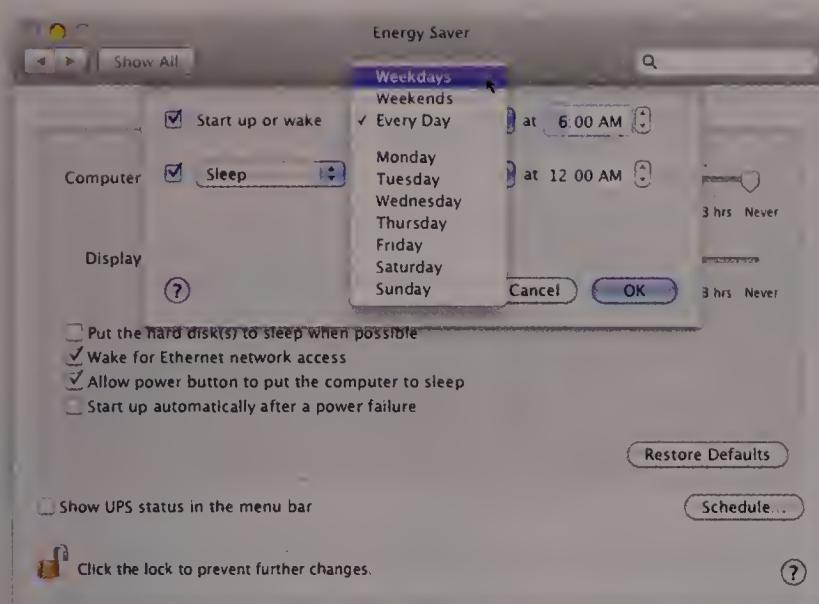
Apple's Exposé lets you press certain keys to display either all your windows, all windows of the current application, or no windows (to show your desktop). These features let you switch windows easily, or access your desktop with a single key press.

If you use Exposé often, you can set an "active screen corner," aka hot corner, to activate this feature. Open the Exposé & Spaces preference pane, and then click on the Exposé tab. In the Active Screen Corners section, you'll see pop-up menus that correspond to the different corners of your screen. There you can set the corners to trigger Exposé, Dashboard, your desktop, and other features.

When these corners have features assigned to them, you need merely move



Spotlight Results, Your Way Here I've unchecked items I never search for, and I've reordered the list so that things I do look for will appear at the top of my Spotlight results.



Wake Your Mac There's no need to wait for your Mac to boot up if you start working at same time every day. Use System Preferences to make sure your Mac is ready when you are.

your cursor to the corners to activate them. For example, I have my bottom left corner set to All Windows, so I can easily view my windows and switch among them without pressing a key. I have the bottom right corner set to Dashboard, so whizzing my cursor down there shows me all my widgets.

Wake Your Mac Before You're Awake

If you have an early-bird's ambition but not its sleep habits, your Mac can lend a hand by downloading the morning's e-mail before you've left the comfort of your bed. The means for doing so is in

the Energy Saver system preference, where you can designate exactly when you want your Mac to spring to life.

Simply launch System Preferences, click on the Energy Saver item, and, in the resulting window, click on the Schedule button at the bottom of the window.

In the sheet that appears, enable the

Start Up Or Wake option, choose an appropriate selection—Weekdays, Weekends, Every Day, or a specific day—and then pick a time you'd like your Mac to start up or awaken.

You can also choose a time to put your Mac to sleep, restart, or shut down—a handy option when you haven't the time to wait for your Mac to complete some late-night chore.

Senior Contributor **Kirk McElhearn** writes about more than just Macs on his blog Kirkville (www.mcelhearn.com). Senior Editor **Christopher Breen** contributed to this story.

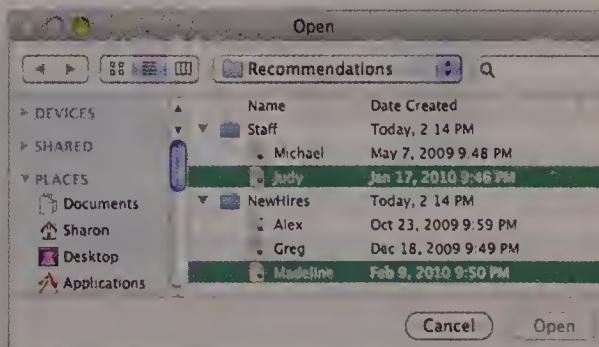
Save Time Opening Files

By Sharon Zardetto

You need to open three items in Microsoft Word, or two in Adobe InDesign, or any number in some other application. Unfortunately, you're already in the Open dialog box and don't want to switch to the Finder. No problem. If you can see the items you want to open, select all of them, and then press Return or click on the dialog box's Open button to open all the files at once.

The way you select multiple items depends on the view (Icon, List, or Column) you're using in the dialog box. (Change your view by clicking on the small buttons at the top of the dialog box, or by pressing $\text{⌘}-1$, $\text{⌘}-2$, or $\text{⌘}-3$.) If you're in List or Column view, you can click on the first item and then Shift-click on the last to select them and everything in between. Alternatively, $\text{⌘}-\text{click}$ to select noncontiguous items. In Icon view, you can also drag a selection rectangle around icons to select them, using a Shift-click afterward to add an item to, or remove it from, the selection.

Tip If you're in List view, you can select and open multiple items that aren't even in the same folder, as long as you can expand the folders to a level that displays all the items you want (see "Open Multiple Items at Once").



Open Multiple Items at Once If you use List view in the Open dialog box, you can $\text{⌘}-\text{click}$ on files in different folders to open them at the same time.

Brenthaven ProStyle BP-XF

Next to a rolling bag, a backpack is the healthiest way to travel with your laptop. Unfortunately, it's tough to find one that's also checkpoint-friendly. That's why I was excited to find Brenthaven's \$150 ProStyle BP-XF (macworld.com/5841). Unzip and flip out the laptop compartment for unobstructed TSA screening without having to remove your computer from the bag. This business-like backpack fits notebooks as large as 17 inches and includes plenty of organizational features.—DAN FRAKES

PDF TRICKS EVERYONE SHOULD KNOW

You can work more efficiently with all those PDF files—here's how

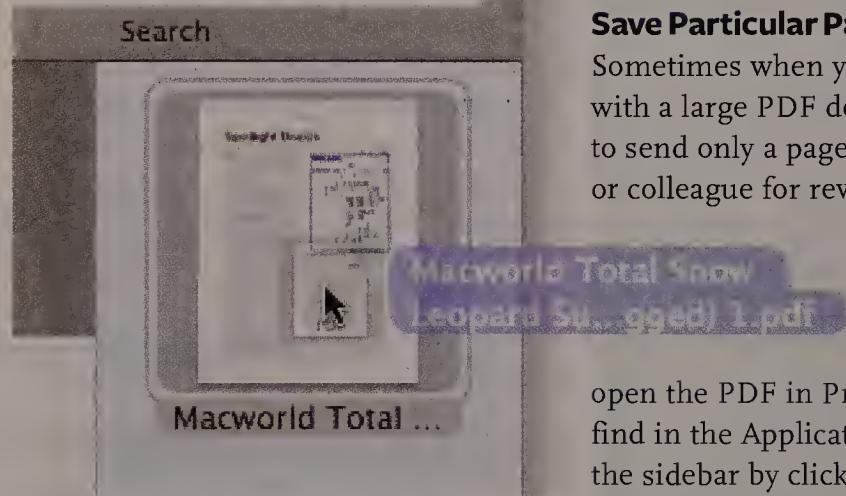
By Kirk McElhearn

Portable Document Format (PDF) files are practical and easy to work with, not only because they retain the layout of your documents, but also because you can share them with others even if the people you share them with don't have the software you used to create the documents. Here are three tricks to make working with them easier.

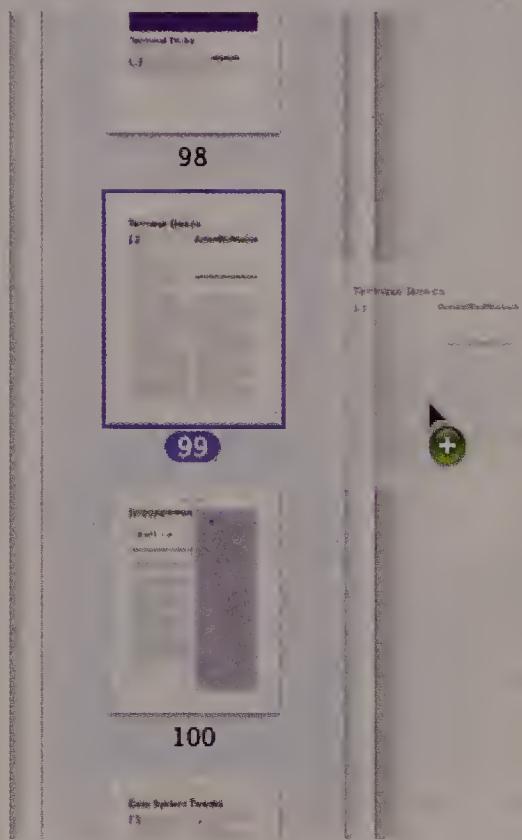
E-mail PDFs with One Click

Whenever you print something in Mac OS X, you'll see a PDF button at the bottom of the Print dialog box. Click on this and choose Save As PDF to save any document as a PDF. Look more closely at this menu and you'll see that you can also save and e-mail a document with a single menu selection. When you have a file you want to share, press ⌘-P , click on the PDF button in the Print dialog box, and then choose Mail PDF. Your Mac will create the PDF, launch Apple Mail, and then create a new message with the PDF as an attachment. All you need to do is

...
e)



Combine PDFs The trick to combining PDFs in Snow Leopard is to drag one file on top of another's thumbnails in Preview's sidebar. This makes the first PDF display as a binder with an arrow button that lets you open or close its pages.



Save a Page Want to save one page from a large PDF? Drag its icon from Preview's sidebar to a Finder window or the Desktop. The cursor changes to a green plus-sign (+) icon.

enter an e-mail address, a subject line, and some comments. Done! (Use Microsoft Entourage instead? See "Tip from a Macworld Reader" at macworld.com/5878.)

Save Particular Pages from a PDF

Sometimes when you're working with a large PDF document, you want to send only a page or two to a friend or colleague for review. It's a snap to save single pages, or hand-pick multiple pages, from a PDF. First,

open the PDF in Preview (which you'll find in the Applications folder). Reveal the sidebar by clicking on the Sidebar button on the Preview toolbar (or by pressing ⌘-Shift-D). You should see a thumbnail image of every page in the document. (If you don't see them, press ⌘-Option-2 .) Find the page you want

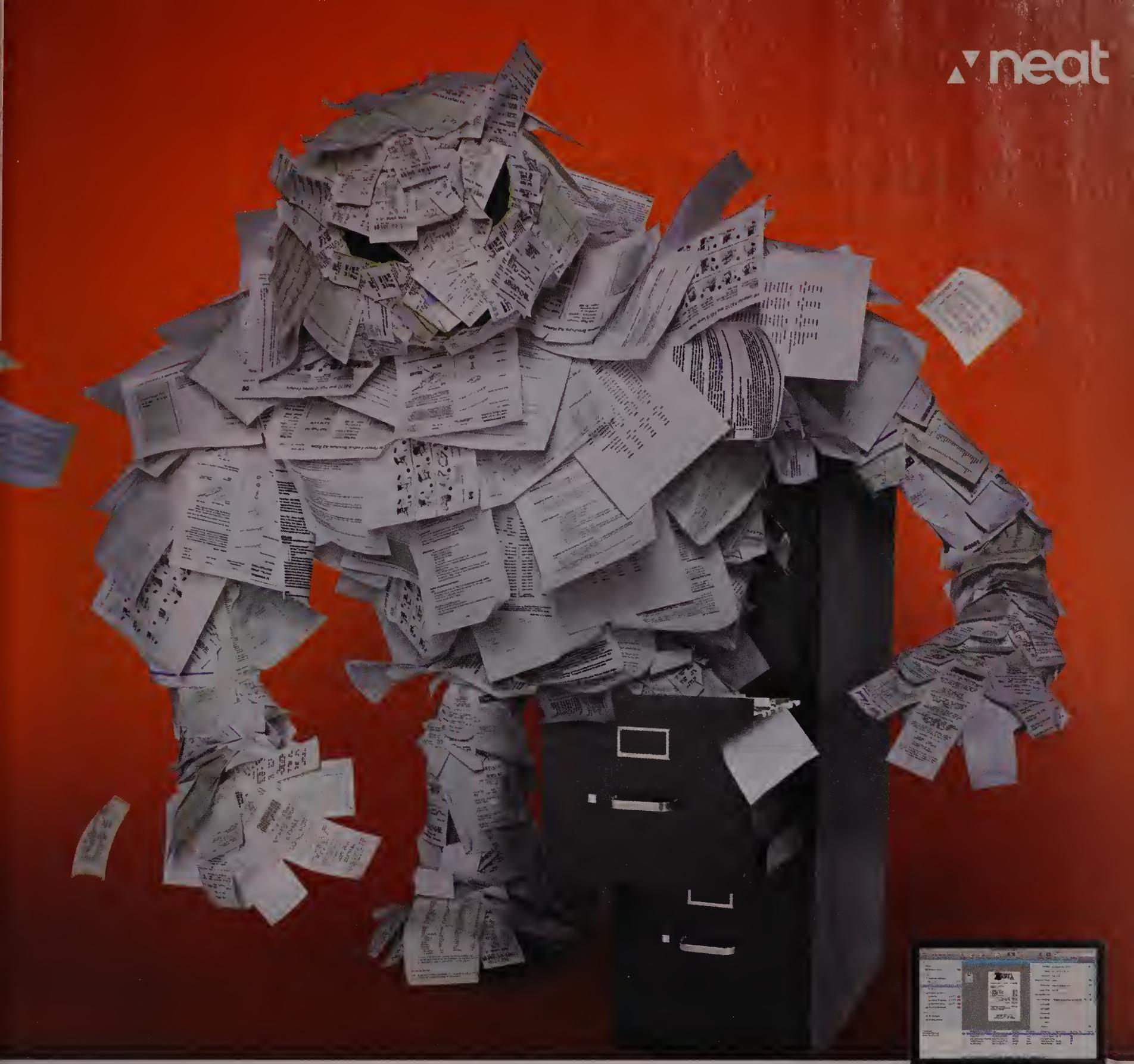
to save, and then drag its thumbnail image from the sidebar to a Finder window or to your Desktop (see "Save a Page"). If you want to drag multiple pages, select them (Shift-click to select adjacent pages, or ⌘-click to select noncontiguous pages) and then drag them the same way. The dragged page(s) will be saved with the filename *originalPDFname(dragged).pdf*.

Merge PDF Pages

Sometimes you end up with a bunch of small PDFs that you'd like to put together as one file. This is easy to do, but the process has changed between Mac OS X 10.5 (Leopard) and OS X 10.6 (Snow Leopard). Open one of the PDFs in Preview. We'll call this the first PDF. Display the sidebar to reveal its thumbnails (as described earlier). Under Leopard, you could just drag a PDF file—be it a single or a multiple-page document—into place on the sidebar in the first PDF to add it to that file. Saving the document would save the two PDFs together as one. With Snow Leopard, however, there's a new trick that's not documented.

Instead of dragging the second PDF onto the sidebar below the thumbnails of the first PDF, drag it *on top* of the first one's thumbnails (see "Combine PDFs"). This changes the display of the first PDF in the sidebar so that it looks like a binder. Click on the arrow button to "close" or "open" the PDF, toggling between showing just its first page and all the pages it contains. This makes it easy to check that you've put documents in the right order.

When you press ⌘-S to save the document, Preview will save the whole thing within the document of the first PDF file that you opened. (Alternatively, you can save it as a new document by pressing ⌘-Shift-S and choosing a new name.)



neat

PUT YOUR PAPER MONSTER IN ITS PLACE

Turn beastly paper piles into organized, digital files with NeatReceipts®

NeatReceipts for Mac is a portable, USB-powered scanner and digital organizer that helps you stay clutter-free at work, at home - even on an airplane. Featuring our patented NeatWorks® for Mac software, NeatReceipts extracts key information from your receipts, business cards, and documents, and organizes it all for you in a digital filing cabinet. Good for peace of mind. Bad for Paper Monsters.

- Scan and organize receipts, business cards and documents in a digital filing cabinet
- Create expense reports, IRS-accepted tax reports, digital contacts and searchable PDF files
- Export data to Excel®, Quicken®, Mac Address Book, or PDF



NeatReceipts® FOR MAC

TO ORDER VISIT
neatco.com/MW912
OR CALL 866-399-7950

FREE DELUXE
TRAVEL CASE
WITH PURCHASE
USE COUPON CODE: MWTC

A SNEAK PEEK AT OFFICE 2011

Microsoft shares details about the next version of its popular office suite

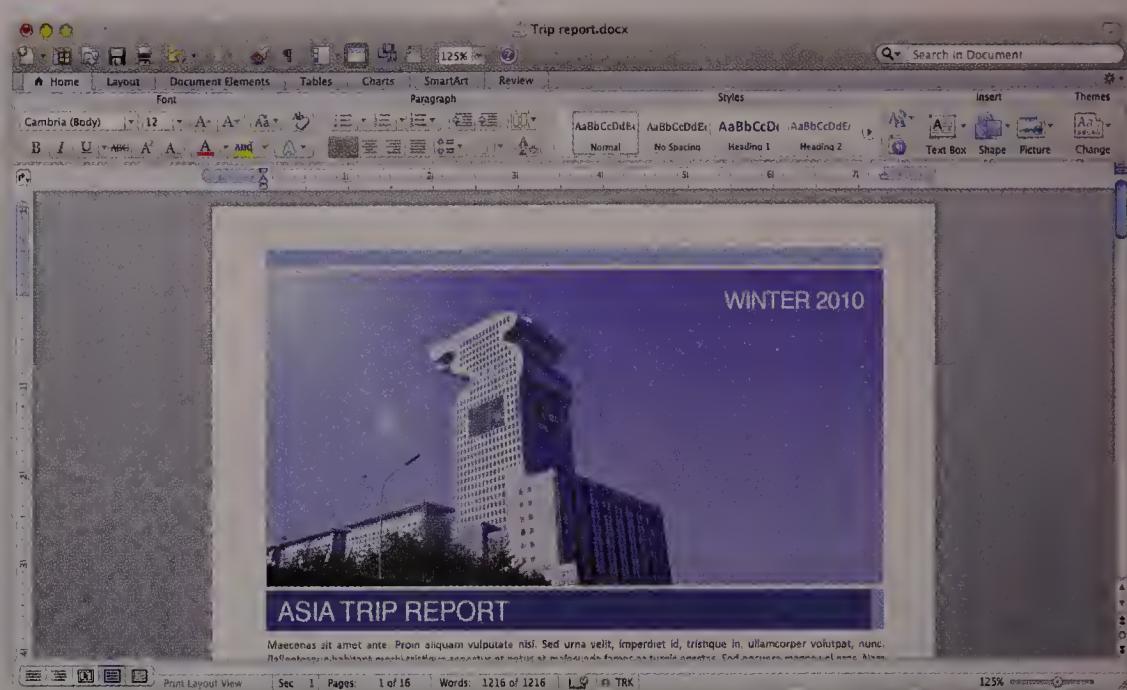
By Dan Miller

Microsoft has provided the most extensive look yet into the next version of its popular Office suite for the Mac. Microsoft Office for Mac 2011 will arrive in time for the 2010 holiday season. It will focus on better compatibility across platforms, and have improved collaboration tools and a more refined user interface. As previously announced, the suite will include Outlook for Mac (replacing Entourage as Office's e-mail client) and will renew support for Visual Basic, which was dropped in the 2008 version.

Microsoft's Han-Yi Shaw likened Office 2008 to a teenager—"a little quirky"—but said that the new edition is Office matured. "This is the version that everyone wanted," he said.

Compatibility and Collaboration

Office for Mac 2011 will incorporate document-collaboration features that take advantage of Microsoft's online storage features. Mac users will be able to share files and collaborate on documents—online, and in real time—with other Mac



Office 2011's New Look In this preview image from Word 2011, you can see the new Ribbon running along the top of the page. Unlike the Elements Gallery, the Ribbon is customizable.

"Office 2011's New Look"). The Mac version of the Ribbon doesn't replace any menu bars, but it does replace Office 2008's inflexible Elements Gallery. This new Ribbon is designed to give users quick access to each program's most commonly used tools. Unlike the

Spotlight than the currently available Microsoft Entourage is.

The new Outlook will also support PST imports. These allow you to move an Outlook installation, including all your old e-mails, from a Windows PC to a Mac.

Outlook will support Microsoft's Information Rights Management (IRM), which lets senders specify what recipients can do with messages (print, forward, and so on). Previously Windows-only, IRM is mandatory for some corporate settings.

The Return of Macros

Finally, power users will be glad to see the return of the Visual Basic macro language. The Mac suite will use the most up-to-date version of Visual Basic, which is more compatible with Office for Windows than the Visual Basic in previous versions of Office for Mac.

"This is the version that everyone wanted." —Microsoft's Han-Yi Shaw

and Windows users via Microsoft's SharePoint (sharepoint.microsoft.com), SkyDrive (skydrive.live.com), and Office Web Apps (macworld.com/5842).

Interface Updates

One of the most noticeable changes to the Office suite is the new Ribbon at the top of each document window (see

Elements Gallery, the ribbon is customizable and, if you want more screen space, completely collapsible.

E-mail Changes

Microsoft has reengineered the Outlook message database system to be a series of small files, so it's more easily backed up with Time Machine and searched in

SOFTWARE

AccountEdge 2010, from Acclivity (www.accountedge.com): Accounting software includes online Web store, and more (\$299).

Upshot 1.0, from Howling Moon (howlingmoonsoftware.com): Take screenshots of your Mac's desktop and programs and then share them with others on the Internet (\$15).

PDF2Office Professional 5, from Recosoft (www.recosoft.com): Convert PDF documents into formats readable in Microsoft Office, now including Excel (\$129).

Postbox 1.1.2, from Postbox (www.postbox-inc.com): E-mail program highlights important message info; integrates with iCal, iPhoto, and Google Maps (\$40).

DATA RESCUE 3



DRIVE EMERGENCY

Do-it-Yourself
Data Recovery Software

PROSOFT Engineering, Incorporated

www.prosoftengineering.com

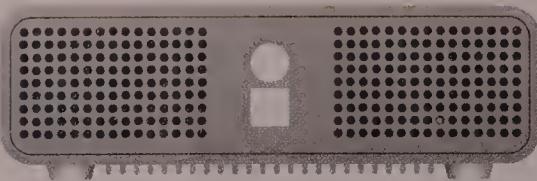
877-477-6763

© Copyright 2010 Prosoft Engineering, Inc.

FREE
Demo

Reviews

WHAT WE'RE REVIEWING
ONLINE THIS MONTH

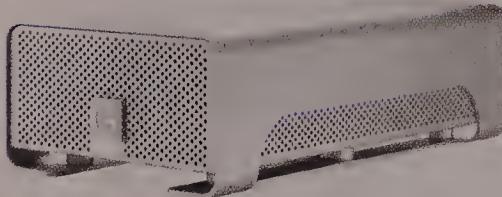


HARDWARE

Ci Design iStoragePro iT1 Dock 2TB

This aluminum-shelled desktop drive has a 2TB capacity, a three-year limited warranty, and the designation as the fastest desktop drive we've ever tested. The iT1 Dock is a quad-interface drive that comes with two FireWire 800 ports, an eSATA port, and a USB 2.0 port. The 3.5-inch SATA II hard-drive mechanism inside the iT1 Dock is manufactured by Western Digital and comes formatted for Mac OS X as a default. The iT1 Dock has more than enough space to store your Time Machine backups and large files. Suited for both audio/visual professionals and the average consumer, the iT1 Dock is a versatile drive. Professionals will love the speed, versatility, and large capacity, while the average consumer will enjoy the price per gigabyte, ease of use, and Mac compatibility (macworld.com/5843).

 \$329; Ci Design, www.cidesign.com



G-Technology G-RAID 4TB

The most striking attribute of G-Technology's G-RAID 4TB drive is how aesthetically pleasing it is. The G-RAID blends effortlessly with any member of the Mac family, especially the Mac Pro. The G-RAID comes formatted with RAID 0 for OS X systems, and it's ready to go the instant it is connected to your computer. The quad interface lets you plug in either an eSATA, a FireWire 800, a FireWire 400, or a USB 2.0 cable and comes with all four cables, each more than a meter long. The drive did well in our speed tests, particularly when tested under Snow Leopard. The G-RAID is

worth considering due to its massive storage availability, sleek design, and great price (macworld.com/5809).

 \$600; G-Technology, www.g-technology.com



Logitech Performance Mouse MX

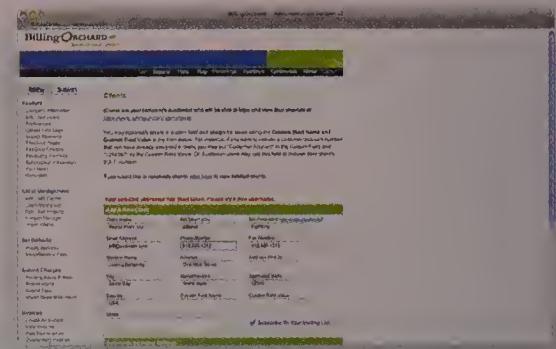
If you like your mice big, beefy, and full of features, then you might well like Logitech's Performance Mouse MX. The Performance Mouse MX is designed for right-handers (sorry, lefties). There's a groove along the left side of the mouse for your thumb, and the mouse fits the hand nicely. It's a little on the heavy side, weighing 5.8 ounces. It's also a bit long, measuring about 5 inches in length (it's 3.25 inches wide and 1.75 inches tall). If you have small hands, you'll have to reach for the two main mouse buttons. The Performance Mouse MX comes with Logitech's Unifying receiver—an RF device that plugs into your USB port. It works with the mouse, as well as with six other compatible input devices listed on Logitech's Website. For example, if you decide to use Logitech's Wireless Keyboard K340, you'll need one Unifying receiver for both devices. The bundled battery drains quickly, and the tracking isn't fast enough for serious gamers, but for everyday use, this mouse is a great choice (macworld.com/5875).

 \$100; Logitech, www.logitech.com

SOFTWARE

BillingOrchard

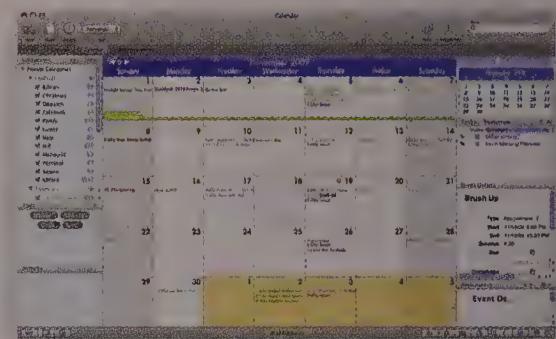
Aimed at freelancers and small-business users, BillingOrchard is an online invoicing and accounting application. It offers an



interface that eschews fancy graphics and clever formatting for no-frills simplicity. No frills isn't necessarily a bad thing, but with BillingOrchard that lack of frills sometimes goes hand-in-hand with a lack of polish.

Better timing tools that integrate with the rest of the application, more-complete documentation, and some way to export billing data for importing into an accounting application would go a long way toward making BillingOrchard a viable choice as a Web-based billing and invoicing application (macworld.com/5877).

 \$10 to \$80 per month; Lyerian Group, www.billingorchard.com



Now X

Now Software replaced its venerable software—Now Up-to-Date & Contact 5.3—with this completely new, redesigned calendar and contact application. Now X is a single, integrated application with a tabbed interface, which lets you break your calendar and contact information into discrete groups.

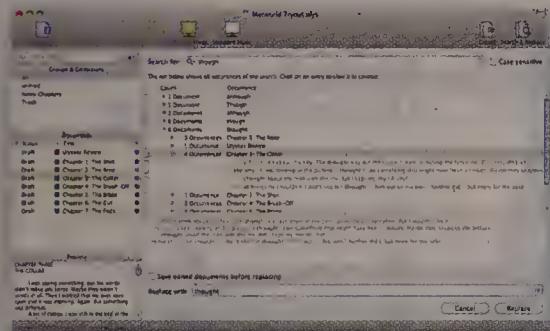
Find It Online

For expanded reviews, type the blue URL at the end of each summary into your browser's address bar.



Now X syncs with both Address Book and iCal, which makes it easy to get up and running. Unfortunately, the program is plagued by bugs and poor documentation. Now X's Quick Menus, which let you access calendar and contact information from the menu bar, often stick open and can't be closed. Contact fields do not allow capitalization. Creating new appointments in the calendar is counterintuitive and, unless you use a keyboard shortcut, a real pain. Users familiar with the original Now applications will also be disappointed to learn the program lacks group calendaring and contact management, though Now Software states that Now X Server and Windows and Web versions of the program are in the works (macworld.com/5876).

1½; \$130; Now Software, www.nowsoftware.com



SOHO Organizer 8 △

Even in an age of MobileMe and Google calendars, there is still a need for stand-alone desktop personal information software.

SOHO Organizer 8, a suite of applications for small businesses and anyone juggling contacts and calendars, does a good job of keeping your plates spinning. Subtle but powerful features (such as a way to make a phone call with a landline phone just by holding it up to your Mac speakers) separate Organizer 8 from the pack. New features include a theme option for customizing the calendar view with color-coding so you can find meetings quickly, a desktop calendar option, and simple additions such as making the official start of the week the current day. Longtime Organizer users will notice the most significant change: a speed increase. Chronos also now offers CalDAV support. Still, better integration with online e-mail servers and iPhone sync features would have made SOHO Organizer 8 more attractive. As it is, the product is just a great desktop organizer (macworld.com/5844).

1½; \$100; Chronos, www.chronosnet.com

Top Products

YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



HARD DRIVES

Desktop

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
VR Mini (pictured) www.caldigit.com	4½	\$550 (1TB)	quad interface	5396
G-RAID 4TB www.g-technology.com	4½	\$500 (4TB)	quad interface	5809
Rocpro 850 www.rocstor.com	4½	\$135 (500GB)	quad interface	5397



HARD DRIVES

Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Mercury On-the-Go (pictured) www.macsales.com	4½	\$138 (320GB, 7200 rpm)	triple interface	4258
Starck Mobile Hard Drive www.lacie.com	4½	\$88 (320GB)	USB-only	5608
iStorage Pro Pocket www.cidesign.com	4½	\$199 (320GB)	dual interface	5808



MONITORS

Widescreen

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
324 LCD (pictured) www.lacie.com	4½	\$820	24-inch display	3896
LP3065 www.hp.com	4½	\$1133	30-inch display	2509
SyncMaster 2233SW www.samsung.com	4½	\$155	21.5-inch display	5900



PRINTERS

Laser

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
C544DN (pictured) www.lexmark.com	4½	\$449	LED, color	4356
C6150dn www.okidata.com	4½	\$665	LED, color	3899
HL-4070CDW www.brother-usa.com	4½	\$450	PostScript-compatible	3385



PRINTERS

Multifunction

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Color LaserJet CM1312nfi (pictured) www.hp.com	4½	\$370	laser	5183
Artisan 810 www.epson.com	4½	\$299	inkjet	5916
LaserJet M1319f www.hp.com	4½	\$215	laser, monochrome	5480

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com takes you to a product's review or overview.

Business Center

NEWS AND ANALYSIS ABOUT
MACS IN THE WORKPLACE

Users Make Hacking Easy with Weak Passwords



In a report likely to make IT administrators tear their hair out, most users still rely on easy passwords, some as simple as '123456,' to access their accounts.

The report from Imperva (www.imperva.com) is based on an analysis of 32 million passwords that were exposed in a recent database intrusion at RockYou, a developer of several popular Facebook applications.

The passwords belonged to registered users of RockYou and had been stored by the company without encryption on the compromised database. According to Imperva, about 30 percent of the passwords in the hacked list were six characters or less, while 60 percent were passwords created from a limited set of alphanumeric characters. Nearly 50 percent of the users had used easily guessable names, common slang words, adjacent keyboard keys and consecutive digits as their passwords.

In fact the most common password among RockYou users was '123456' followed by '12345' and '123456789.' The other passwords rounding out the top five were 'password' and 'iloveyou.' Many of the top 5000 passwords in the list were identical to those found in password dictionaries, which are used by hackers to force their way into accounts. What makes Imperva's report unique is the sheer size of the sample analyzed. Though the passwords gave access to a low-value user account, previous studies have shown that users use the same password for multiple accounts, including corporate and financial accounts.—JAIKUMAR VIJAYAN

OpenOffice 3.2 Fixes Vulnerabilities

The latest version of OpenOffice fixes several vulnerabilities that could cause a computer to become compromised by a remote attacker. OpenOffice.org 3.2 adds a lengthy list of new features and improves the suite's overall performance while also fixing six vulnerabilities.

Three of those problems could allow a remote attacker to execute code. In one of those cases, a malicious XPM file—a type of image format supported by ODF (OpenDocument Format)—could be maliciously crafted and allow a remote user to execute other code on the computer with the same privileges as the local user.

The suite had a similar vulnerability involving the GIF image format, which has also been fixed. The third vulnerability could allow an attacker to take over a computer by getting a user to open a maliciously crafted Microsoft Word document. All three of those vulnerabilities affect all prior versions of OpenOffice.org.

Hackers increasingly look for these three kinds of vulnerabilities, since users can be targeted by e-mail, and various social engineering tricks can be employed to try to get them to open a document.

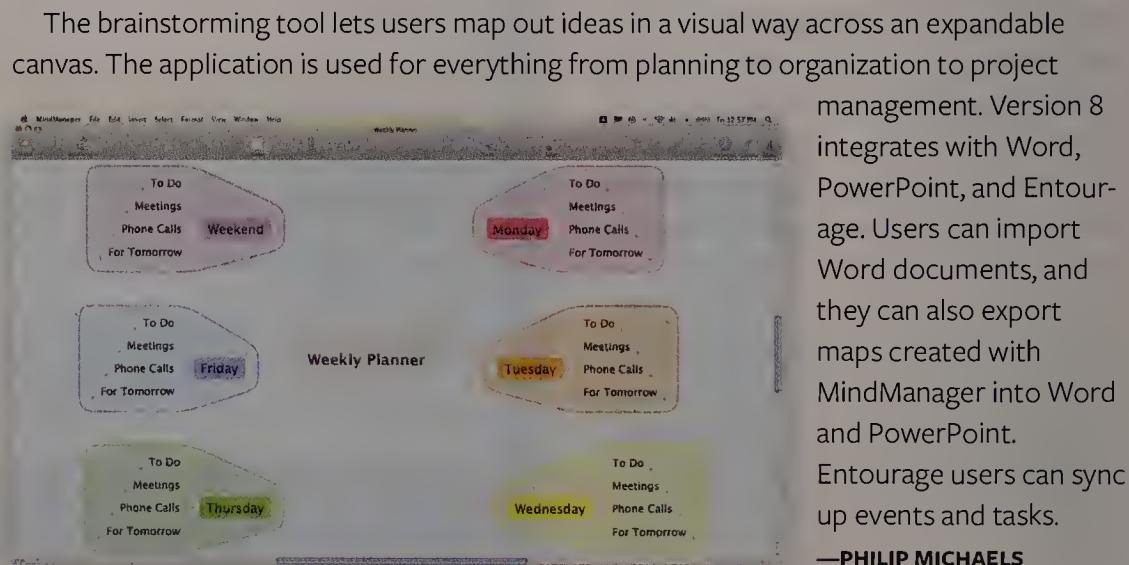
In theory, these vulnerabilities could affect Mac users, since the program uses the same code base across different platforms. However, there haven't been any reports of hackers exploiting such a hole on the Mac. Still, Mac users should download the latest version from OpenOffice.org.

—JEREMY KIRK



MindManager 8 Integrates with Office

MindManager users who've clamored for the mind-mapping application to work with Microsoft's Office programs will welcome the arrival of MindManager 8 (\$249; www.mindjet.com). Mindjet's latest Mac-compatible version of the productivity tool brings integration with key components of Microsoft's collection of office applications.



The brainstorming tool lets users map out ideas in a visual way across an expandable canvas. The application is used for everything from planning to organization to project management. Version 8 integrates with Word, PowerPoint, and Entourage. Users can import Word documents, and they can also export maps created with MindManager into Word and PowerPoint. Entourage users can sync up events and tasks.

—PHILIP MICHAELS

GOING green

According to the U.S. Department of Energy, in the typical American home, appliances and home electronics are responsible for using about 20 percent of all the energy piped into that home each month—totaling \$240 a year on average. A large part of that bill is for the power to run computers, laptops, printers, and other computing devices, many of which are left on 24 hours a day.

Now there's an easy way to trim those expenses and do something good for the environment, too: APC's Back-UPS Pro backup power unit offers several power-saving modes designed to save money by reducing unnecessary power draws, while protecting your sensitive electronics and data. The average Back-UPS Pro user can save as much as \$50 a year simply by connecting devices that were formerly plugged directly into a wall outlet to a Back-UPS Pro unit instead.

One of the Back-UPS Pro's primary features is the power-saving outlets that automatically shut off power to unused peripherals, turning them off completely when they are not in use. A growing problem for electronics devices has been so-called "vampire" power usage, whereby devices that should really be turned off actually draw a small—but not insignificant—amount of electricity 24 hours a day to remain in a sort of standby mode, and that adds up to substantial costs over time.

But the Back-UPS Pro offers an additional power-saving feature called automatic voltage regulation, or AVR. AVR is designed to correct situations where improper voltage is being delivered from the utility. If voltage to a device is too high or too low, the Back-UPS Pro automatically corrects this, bypassing the unit's transformer and preventing the internal battery from activating unless there is a complete loss of power. This feature saves even more money for the consumer because it prevents the internal battery from having to be recharged frequently, which requires more energy.

It's easy to see at a glance how much you're saving. A large LCD on the front of the Back-UPS Pro shows information about electrical load, estimated runtime in the event of an outage, input voltage, and other system information.

For a more detailed look at each device's current status and history of power problems, and to manage configuration options, the PowerChute Personal Edition software bundled with each Back-UPS Pro lets users manage their backup power system. Each unit includes a \$150,000 equipment protection policy. Extended warranties are available for as long as three years.

APC
Legendary
Reliability

**APC Back-UPS
Pro Makes
Green Computing
As Easy As
Plugging It In**

**During the week of Earth Day
(April 18 to 24, 2010), for every green
surge protector product sold through
participating retailers, APC will donate
\$5 to an environmentally friendly
organization. For more information,
see your local retailer or visit
www.apc.com.**

APC
by Schneider Electric



RIP AUDIO TRACKS FROM YOUR DVDs

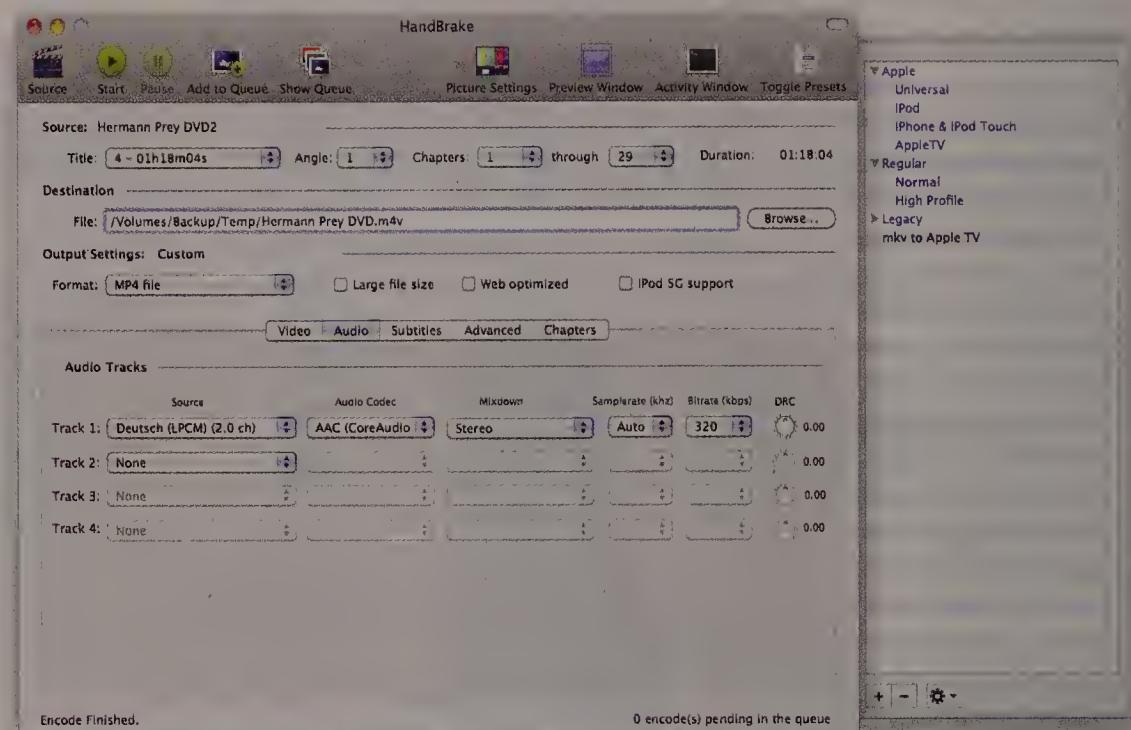
Pull the musical content off your favorite DVDs for listening on your iPod or in iTunes

By Kirk McElhearn

If you're a music fan, you probably have a number of DVDs of concerts by your favorite artists. And you may want to listen to the music from these DVDs, say, on your iPod. In many cases, the "soundtracks" of concert DVDs are not commercially available (and even when they are, you already own the DVD, so why pay twice?). Why not rip the audio yourself, and make your own live album from those favorite DVDs?

We've discussed recording audio from different sources on your Mac in the past. This method captures the audio playback from an application on your computer (DVD Player, for example) into a file that you can edit, chop up, and tag. While you could use this method, it requires that you play the entire DVD while the application runs on your computer.

If you want to instead pull the audio files off your DVDs, there are several ways to do so. Our sister site MacOSX-Hints.com recently ran a hint describing one method, but it's a bit complex,



HandBrake Although you can't choose to export only audio with HandBrake, you can make use of the audio track that it includes in your video output.

your Mac, which contains the libdvdcss library for circumventing copy protection on DVDs. (DVD-ripping is a legal gray issue, and varies by country—but in the United States, courts have not

make sure Constant Quality is selected and move the slider all the way to the left to 0 (if you're ripping the DVD only to get its audio, the video quality is unimportant, so the smaller the file size the better).

Click the Audio tab, and choose the track you want to rip next to Track 1. If there's a 2.0 audio track, use it—it's already professionally mixed down to stereo. If there's only a 5.1-channel soundtrack, you can use that instead. Choose AAC (CoreAudio) under Audio Codec, Stereo under Mixdown, Auto under Samplerate, and 320 under Bitrate. Finally, under the Chapters tab, make sure Create Chapter Markers is enabled.

Click the Start button and let HandBrake do its work. Since you're ripping the video at the lowest quality, it should

If your ripped file has chapters in it, Extract Movie Soundtrack can even export each chapter as its own AIFF file.

and it involves some outdated software that may not work much longer (see it at macworld.com/5888).

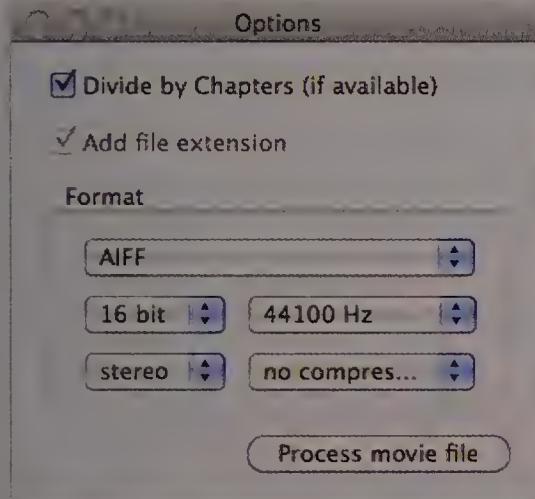
Here's another method I use, which is relatively quick and easy. Start with the latest version of HandBrake (handbrake.fr), the free DVD-ripping and video-conversion tool. HandBrake requires that you also have VLC media player (www.videolan.org/vlc) installed on

determined that ripping DVDs you own violates fair-use doctrines.)

Insert your DVD and then launch HandBrake. Select the part of the DVD you want to rip; it's usually the longest title, or the main feature. But for DVDs with several features, you can rip each one individually if you want. In the Presets Drawer, choose Regular ▶ Normal. Then, under the Video tab,

take less time than a high-quality rip. When HandBrake has finished, download Monkeybread Software's free Extract Movie Soundtrack 2.0 (payment requested; www.monkeybreadsoftware.de). This small app exports the audio from a movie file in AIFF format. And if your ripped file has chapters in it, the app can even export each chapter as its own AIFF file. If that's the case, all that's left now is to add your tracks to iTunes, tag them, and convert them to your format of choice (such as AAC or MP3).

Another option is to open the HandBrake-produced video file with QuickTime Player 7 (not the version of QuickTime Player that comes with Snow Leopard's QuickTime X—you won't have QuickTime Player 7 if you did a standard installation, so you may need to go back to your Snow Leopard DVD and install it). Choose File ▶ Export, and then choose Sound To AIFF in the Export menu. (That's why you set HandBrake to use the highest bit rate; as with Extract Movie Soundtrack, you want to export the audio as AIFF, and since you'll probably want to reconvert the file to AAC later, it's best to lose the least amount of information possible.) Click the Options button. In the Sound Settings window, make sure Linear PCM is chosen for Format, Channels is set to Stereo (L R), and Rate is 44.100.



Extract Movie Soundtrack If your DVD has chapter markers, this app can split audio for you.

Render Settings should be Best, and Sample Size should be 16 bits. (Using a different sample rate may cause distortion or hiss.) Click Save to save the file. QuickTime Player 7 will strip the audio from the video file, and save it in uncompressed AIFF format.

If you used QuickTime—or if Extract Movie Soundtrack didn't split all the tracks of your music the way you'd like—you'll probably want to split your recording into separate tracks. You can do that with the free Audacity (audacity.sourceforge.net), but I find that a much easier program is Rogue Amoeba's \$32 Fission (rogueamoeba.com).

Once you open the AIFF file, you have a few options. The first is to select Tools ▶ Smart Split. The app tries to figure out the track breaks, and you can adjust silence length and sensitivity settings to fine-tune the process.

If Smart Split doesn't work as well as you'd like, you can manually look for the spots where the waveform is flat (the silent bits between tracks). First click the Split icon in the toolbar, and then click the spots between tracks in the waveform. For live music with segues, you may need to play the music in Fission to find the best locations for splitting tracks. Save the changes, and you'll have AIFF files of individual tracks.

As a side note, there are a number of programs that claim to rip just a DVD's audio to different formats, and I tried several of them. Most of them do not work reliably, and some of them seem to be the same program, ported from Windows and packaged in a slightly different interface. Your mileage may vary, but there doesn't seem to be a real Mac program that does this trick, and I don't recommend any of those apps I tried. Still, my method is just one way to extract audio.

Senior Contributor **Kirk McElhearn** writes about more than just Macs on his blog Kirkville (www.mcelhearn.com).

10,000,000,000

10 billion songs downloaded from iTunes. And counting.

iTunes Store: More than 10 Billion Songs Served

By Marco Tabini

Who says people don't buy music anymore? In late February, Apple reached a historical milestone when Louie Sulcer of Woodstock, Georgia, downloaded the 10 billionth song from the iTunes Store.

For the honor of purchasing Johnny Cash's "Guess Things Happen That Way," Sulcer was rewarded with a \$10,000 iTunes Gift Card—enough to purchase all 122 Cash albums on iTunes (plus, you know, several thousand other songs, albums, movies, TV shows, audiobooks, and iPhone and iPod touch apps).

In an interview with *Entertainment Weekly*, the 71-year-old grandfather of nine and longtime Cash fan said he bought the 1958 single to listen to on the iPod nano his children gave him for his birthday.

The iTunes Store, like its app-peddling cousin, continues to experience growth at a breakneck pace: The number of song downloads has doubled from 5 billion in a little more than 18 months. Meanwhile, the latest App Store numbers, from last September, peg app downloads at more than 2 billion.

To celebrate the achievement, Apple has published a list of the 25 most-downloaded songs of all time (as of early February 2010) from the iTunes Store (see the list at macworld.com/5889). Both the Black Eyed Peas and Lady Gaga feature prominently in the list, meaning that people older than, say, 25 who happen upon the list are likely to wonder what happened to their youth. Journey's 1981 hit "Don't Stop Believin'," in the 21st spot, is the only song on the list released before 2005.

APPLE, GOOGLE TO STEAL AMAZON'S E-BOOK THUNDER

By Marco Tabini

Sorry, Amazon, we have some bad news for you.

Pressure from new entrants could cause your share of the e-book market to drop from its current 90 percent mark to 15 percent. According to a *Wall Street Journal* article, a report by Credit Suisse analyst Spencer Wang singles out the iPad as a major contributor to Amazon's forthcoming woes. In his research, Wang cites as a major factor the agency-style business model that Apple intends to offer to publishers—a style that diverges considerably from Amazon's approach of imposing a strict pricing structure on the electronic books it sells through its online Kindle store.

The different approach in revenue-sharing strategies, Wang concludes,

will force Amazon to raise its wholesale prices in an effort to provide publishers with a deal that's comparable to Apple's, thus eroding the Seattle-based retailer's competitive advantage in the marketplace.

Coupled with Google's expected (though unconfirmed) entry into the tablet market, Wang forecasts that the three major players will each capture a different slice of the e-book business, with Amazon ending up a clear loser.

Amazon's e-book business model has come under significant criticism in the past few months, with at least one high-profile public squabble with publisher MacMillan generating considerable media scrutiny. In response to Apple's impending release of the iPad,



Amazon has announced a more generous fee structure for Kindle publishers, as well as the release of a software development kit to allow third-party providers to create applications that could run on the e-book reader.

Get Cash For Your Old iPhone!

Have you upgraded your iPhone?

We buy 2G, 3G, and 3GS models
(from good condition to cracked or non-functioning)

The process is simple and convenient!

www.SellYourOldiPhone.com
recycle@sellyouroldiphone.com

Your iPhone App to iPad App in 2 Steps

- 1 Bring your iPhone app to Zco
- 2 Zco develops & deploys your iPad app

CMMI®
Certified Global Facilities

ur 2 2

Expand your user base by porting your iPhone app to the amazing iPad, or to other mobile platforms (Android, BlackBerry, Symbian, Windows Phone & Palm Pre)

ZCO
20 years of providing high quality service
www.zco.com 603.881.9200

'LOST' FOUND EARLY ON FRANCE'S iTUNES

By Kirk McElhearn

Television shows are created in one country (say, the United States) but air in many others as well. The problem is that there are usually long delays due to licensing, the time necessary to translate and dub the shows, and the need to fit them into schedules that may have different priorities than those in the United States. It can easily take six months to a year to be able to watch episodes of popular series in other countries.

But in a major change—one that could have long-term effects on how American series are sold overseas—the iTunes Store is selling a popular series outside the United States a day after it is broadcast. I'm now able to buy the episodes of the final season of *Lost*, with local subtitles, from the iTunes Store in France, where I live (I also found it on the German iTunes Store).

ABC seems to have figured out that by offering downloads in certain countries it could stem some of the revenue loss from file sharing. What's interesting, though, is that the networks in the countries where *Lost* is being sold are accepting this type of deal (they must be getting a cut to compensate for the viewers they'll be losing when they finally broadcast it on TV). However, the French channel TF1 is offering these new episodes of *Lost* for sale on its

video-on-demand site (which is not Mac-compatible), so it seems like TF1 is in on this with ABC and Apple.

While this is the first time that episodes of TV shows have been sold right after their U.S. broadcast, this deal is still limited to just a few countries, and just this one series. But it's worth considering that this may become the norm for popular series, which would completely change the way TV networks in other countries market and broadcast such series. If this experiment proves successful, more series may be sold this way, in order to recover the revenue lost to file sharing. It's not clear how many series are popular enough to generate the kind of interest there is in *Lost*, but this trial run could lead to a new business model for the big TV series that have a lot of overseas fans.



It's 2010. Can your personal finance software export to TurboTax? Schedule payments? Track buys and sells in your portfolio? Let you enter, edit or split transactions manually? Sync to a mobile version for iPhone? Protect your data? Handle multiple currencies? Print custom checks? Import accounts, transactions and investments from Quicken? **iBank can.**

www.ibank3.com IGG SOFTWARE



Fry's ELECTRONICS



OfficeMax

MICRO CENTER

The Ultimate Computer Store

TEKSERVE

amazon.com

and you're done.

Apple Stores

Reviews

HOME ENTERTAINMENT HARDWARE,
SOFTWARE, AND ACCESSORIES

HARDWARE

Bookeen Cybook Opus ▶

The Opus offers pretty much everything you need to read a lot of books, in a very small and lightweight package. But you won't find extras such as a music player, the ability to create notes, or text-to-speech support. If those extra features aren't important to you, and portability and great font-size flexibility are prime concerns, however, you might find the Opus a worthy e-book reader (macworld.com/5869).

3½; \$200; [Bookeen](http://Bookeen.com), www.bookeen.com



Cloud Engines Pogoplug ▶

People seeking a way to share a lot of files over the Internet with very little muss and fuss will find Pogoplug an affordable and enticing avenue for doing so. Connect up to four USB drives to it, and attach Pogoplug to your network, and your files become available to you and those you choose to share them with (macworld.com/5870).

3½; \$129; [Cloud Engines](http://CloudEngines.com), www.pogoplug.com



Mi-Dockspeakers Mi-Soccer ▶

While audiophiles should look elsewhere for an iPod stereo dock, the Mi-Soccer's sound is surprisingly good (with a little tweaking). You can ramp up the volume with no obvious distortion, or listen at lower levels, and the design makes this dock an excellent choice



for a soccer fan (macworld.com/5871).

3½; \$120; [Mi-Dockspeakers](http://Mi-Dockspeakers.com), www.mi-football.com

Scosche TapStick ▶

If you have an iPod shuffle but aren't a fan of Apple's earphones (and many people aren't), then the Scosche tapStick is an excellent option for enhancing your listening pleasure. Apple's smallest iPod has a lot going for it, but the addition of some practical, easy-to-use controls from Scosche is a definite plus (macworld.com/5872).

3½; \$30; [Scosche](http://Scosche.com), www.scosche.com



Sony Reader Daily Edition PRS-900BC ▶

Sony's first wireless e-book reader, though pricey, offers first-rate newspaper support—but only if AT&T's service cooperates. Oddly, even though the Daily Edition uses a GSM service, it doesn't currently support international



roaming (which is the best reason to go with GSM technology). For now, at least, you can purchase and download content wirelessly only when you're in the United States and within range of a decent AT&T signal. The newspaper support is the most compelling reason to shell out \$400 for this device, but be wary of making the investment unless you are confident of the quality of the available network support (macworld.com/5873).

3½; \$400; [Sony](http://SonyStyle.com), www.sonystyle.com

Tunebug Vibe ▶

The Vibe offers an innovative way to listen out loud to the music on your portable devices. Connect it to your iPod or iPhone, set the Vibe on a flat surface, and turn it on. The Vibe then transmits sound waves through whatever surface it's on—turning the surface into a larger, louder speaker. If you place it on the right surface, the sound is nothing to sneeze at (macworld.com/5874).

3½; \$70; [Tunebug](http://Tunebug.com), www.tunebug.com



iPods: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	PERFORMANCE	FIND CODE
iPod Classic	160GB	4½	\$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	5262
iPod Touch	8GB	4½	\$199	3.5-inch color	30 hours of music playback; 6 hours of video playback	3864
	32GB	4½	\$299	3.5-inch color	30 hours of music playback; 6 hours of video playback	5257
	64GB	4½	\$399	3.5-inch color	30 hours of music playback; 6 hours of video playback	5258
iPod Nano	8GB	4½	\$149	2.2-inch color	24 hours of music playback; 5 hours of video playback	3867
	16GB	4½	\$179	2.2-inch color	24 hours of music playback; 5 hours of video playback	3868
iPod Shuffle	2GB	3½	\$59	none	10 hours of music playback	5267
	4GB	3½	\$79	none	10 hours of music playback	5268

All prices are Apple's prices. [®] In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

MacMania 11

February 4–16, 2011



InSightCruises.com/Mac-11

Round the Horn with MacMania! The stuff of legends awaits you in the cafes of Argentina, the pampas of Uruguay, the penguin-populous shores of the Falkland Islands, the grandeur of Patagonia, the Chilean fjords, and lively Santiago. Back at the ranchero, Fake Steve talks satire, innovation, and destruction; Leo Laporte is your media mentor; Don McAllister brings you the practical mastery of your Mac; and Mac OS X ninja Sal Soghoian serves you apps from A to Z. Grassroots sessions with MacMania Alums Cherwinski, Grollman, and Jackson help get your creativity out there. Meet like-minded Mac types and get in on the MacMania 11 adventure on Holland America Line's ms Veendam, sailing Buenos Aires, Argentina to Santiago, Chile February 4–16, 2011.



PRE- and/or POST-CRUISE TOURS

IGUAZU FALLS & MACHU PICCHU ADVENTURE CALLING —
explore UNESCO World Heritage sites in pre- and post-MacMania 11 excursions. Breeze into legendary Iguazu Falls, home of the U-shaped 246' Devil's Throat cataract, January 31–February 2, 2011. Scale the Andes and absorb Machu Picchu's aura in luxury or standard packages, February 17–19, 2011. Details at InSightCruises.com/Mac-11.



VALPARAISO
(SANTIAGO)

DARWIN CHANNEL
AMALIA GLACIER
CANAL SARMIENTO
COCKBURN CHANNEL

BUENOS AIRES
Montevideo

Puerto Montt
Punta Arenas
Ushuaia

Holland America Line
Stanley
CAPE HORN
BEAGLE CHANNEL

Cruise prices start at \$1,629 per person. The MacMania 11 Program is \$1,095. Taxes and other fees are \$259 pp.

For more info contact Neil at 650-787-5665 or neil@InSightCruises.com

Here is a sampling of the 24 sessions you can participate in while we're at sea. For a full listing of seminars visit InSightCruises.com/Mac11-seminars

Apple Apps from A to Z — This trio of two-hour classes covers the gamut of Apple applications, with an emphasis on a hands-on exploration of Apple's popular programs. The first class focuses on the practical, with an investigation of the essential Mac OS utilities: Mail, Address Book, iCal,TextEdit, and Preview. Learn how to make them work together while discovering their often overlooked abilities. The second class is all about iLife, where you explore the creative side of your computer self. With a focus on real-world examples, learn to combine elements from iPhoto, iMovie, and iWeb to construct an onboard blog that will make your friends and family back home regret they didn't come along. Next time maybe they'll listen to you. We finish the Apple apps overview with a look at iWork. Speaker: Sal Soghoian

Managing Multiple Macs — The likelihood is you have multiple Macs! Perhaps a desktop or two at home, possibly a desktop at the office, his and her laptops? Not to mention the iPods, iPhones, and iPads dotted liberally amongst the family. How to manage all these devices and the multiple synchronization tasks required? This session takes you through the various options for data sharing and synchronization both built into OSX and Mobile Me but also available through third-party apps via the cloud. Speaker: Don McAllister

Photoshop Elements 8 — When you have Photoshop Elements 8 skills in your photo editing repertoire, nothing gets lost in translation from your mind's eye to your images. Join Dr. Tom Grollman for two 90-minute sessions that will get you running in Photoshop Elements 8's Guided and Quick Fix modes, and give you a solid foundation in Full Edit's magic. Speaker: Thomas Grollman, M.D.

25 Things You Need to Know About Mac OS X — Even seasoned Mac veterans don't take the time to setup and streamline their computers to take advantage of the numerous features of Mac OS X. Get the most from your Mac and learn the shortcuts and custom settings used by the pros. Speaker: Sal Soghoian

Master Your iPad — The iPad is game-changing and will quickly become indispensable. Its easy interface combines simplicity with ability, enabling easy access to essential information. You'll explore the iPad's variety of uses: from browsing books, managing email, navigating maps, to building documents and presentations.

Speaker: Sal Soghoian

Fake Steve: How a Simple Practical Joke Utterly Changed My Life — I was a bored-to-death 40-something tech reporter at Forbes magazine, and wanted to learn about blogging. So, on a lark, I started a blog where I pretended to be Steve Jobs. I thought I'd do it for a few weeks and then shut it down. Instead, four years later, the blog is more popular than ever. The whole experience has changed my life. Using slides and screen grabs, I'll share some of the funniest stuff from the blog, and a reminder that sometimes satire and humor are the best weapons for telling the truth. Speaker: Dan Lyons

60 iPhone Apps in 60 Minutes — With over 10,000 applications in the iTunes App Store it might be hard to find the best of the best. Leo's picked 60 fun, useful, and sometimes mind-boggling applications. Fasten your seatbelt for a fast-paced ride through the wonderful world of iPhone applications. Speaker: Leo Laporte

Turning Your Mac Mini Into a Media Center — Leo takes you beyond the AppleTV by showing how you can use a full-blown Macintosh to create the ultimate home entertainment center. Topics will include software solutions like Front Row, Boxee, XBMC, Plex, and EyeTV plus hardware solutions from El Gato and Pinnacle, and useful accessories like remote controls, cable box interfaces, and wired and wireless video distribution systems. You'll leave this hour ready to create your own system. Speaker: Leo Laporte

Creating Fabulous Videos — As camcorders become smaller and more powerful and desktop production tools offer more professional results, people are using their Macs to recapture their travels and adventures in an elegant way. But the challenge remains: how to organize the material into compelling shows to share with other people. Drawing from his long experience with photography and film, Wally Cherwinski covers how to plan, shoot, and shape video footage and stills into a memorable story. Speaker: Wally Cherwinski, Ph.D.

Macworld

Insight Cruises
THE JOURNEY WITHIN

CST# 2065380-40

Macworld



Hot Stuff

WHAT WE'RE RAVING ABOUT THIS MONTH



iPhone 3G/3GS Capsule Case

Can't find the perfect iPhone-case design, despite the plethora of options on the market? Uncommon, maker of customizable mobile phone cases, hopes to solve that problem with the \$40 Capsule Case. You start with a sleek, glossy-white, polycarbonate shell and choose a custom image or graphic—from your own collection or the more than 300 designs in Uncommon's library of 100-plus artists. (There's even a Haiti Relief Collection: 100 percent of the profits from those sales go to the Red Cross.) Uncommon then uses a dye-sublimation process it calls 3D TATT (Thermo-Active Transdermal Technology) to inject the ink into the case material so it won't wear off. A week later, you have the case design you've always wanted, with a hard shell that provides good protection for the sides and back of your iPhone. The bottom of the case slides off so you can dock the phone. Also in the works are iPod touch and iPad versions (www.getuncommon.com).—DAN FRAKES

Sennheiser/Adidas 680 Series Headphones

Audio equipment maker Sennheiser and athletic company adidas have teamed up on a new line of sports earphones. The PMX 680, OMX 680, MX 680, and CX 680 (\$80 to \$120) are designed with exercise in mind. In addition to their high-quality sound and in-line volume control, these earphones have a sturdy construction that reduces vibrations, Kevlar-reinforced cables, and shielding from sweat and rain (you can even rinse them off after a workout). The models run the gamut from earbud to behind-the-head, so they should fit anyone's style (www.sennheiserusa.com).—JONATHAN SEFF



Boxee Beta on Apple TV

Apple TV users, rejoice—the Boxee beta has now made its way to your favorite set-top device. In the past, you could use a USB thumb drive and the *atvusb-creator* software to install the free Boxee media center application on an Apple TV. Sadly, when Boxee introduced its beta version in December 2009, the Apple TV had dropped from its "supported devices" list. But no longer—the device is once again officially supported. And according to Boxee, if you already have the alpha version installed, you should be able to update Boxee directly from the Apple TV (www.boxee.tv).

—SERENITY CALDWELL



Yurbuds

Yurtopia aims to address frequent complaints about poor-fitting earbuds without expensive upgrades or custom eartips. The company makes \$20 soft-rubber eartips, called Yurbuds, that fit over Apple's stock iPod and iPhone earbuds to provide a more comfortable and more secure fit. How does the process work? You take and upload a digital photo of your right ear, either with a quarter next to it or one of Apple's earbuds in your ear. That image helps Yurtopia's image-processing software determine which of the company's 12 eartip sizes is your best fit (www.yurbuds.com).—DAN FRAKES



HyperMac USB Batteries

HyperMac's new line of battery packs let you power your iPod, iPhone, or other USB-charged device on the go. The \$70 Nano, \$90 Micro, and \$120 Mini can charge an iPhone 1.5, 3, or 6 times, respectively. The Nano includes a built-in dock connector, while the others provide a USB port to power any USB device (www.hypershop.com).—DAN FRAKES



Get the best of Macworld on your iPhone and iPod Touch



**Check in on the latest news and reviews
from *Macworld* with our specially formatted**

iPhone interface. Browse all the same news, videos, app reviews and sections you'd find on our site in an easy-to-navigate, readable format. Just open Safari on your iPhone or iPod Touch and go to Macworld.com. It's the best way to keep up to date on all things Apple while you're out.

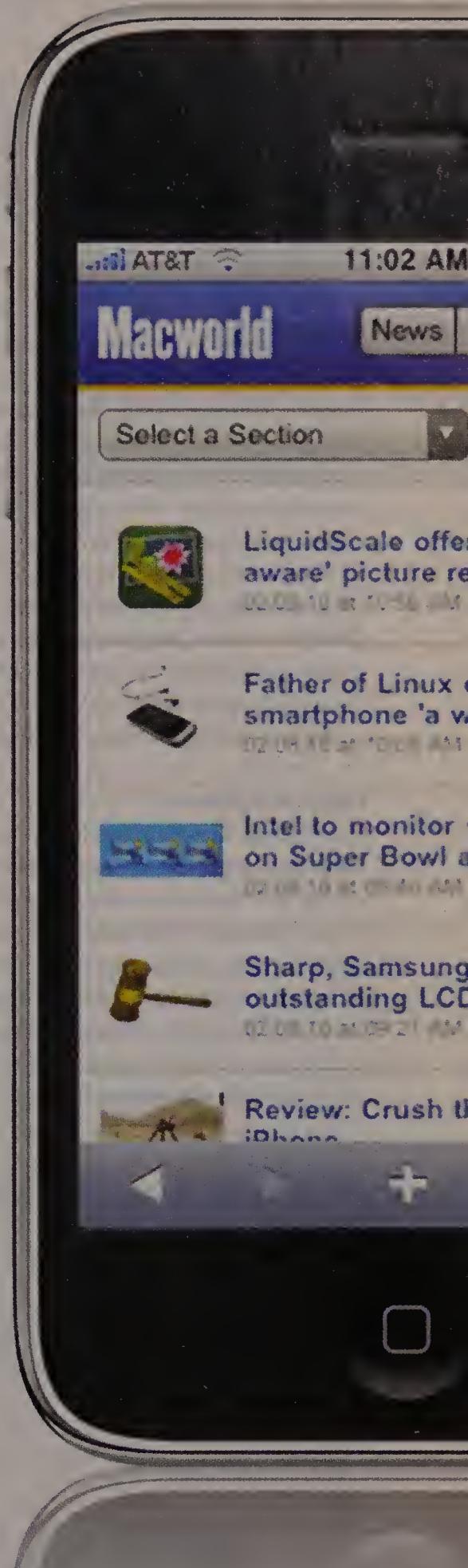
Own our popular Superguides in App format.

Flick your way through pages and chapters with all the same content, pictures and diagrams of our Superguide books, but in a mobile-friendly package. Our *iPhone & iPod Touch Superguide* and *Digital Photo Superguide* are available now at the App Store (iTunes.com/Macworld) for only \$4.99.

Having trouble sifting through the 160,000

Apps available for your iPhone or iPod

Touch? Our App Gems app provides a daily recommendation for a fun, productive or downright slick app you need to check out. A new app is available for each weekday, along with Essentials collections for the times and seasons of your life. Browse top-rated apps by category and get the latest *Macworld* news on apps and phones while you're at it. App Gems is available now on the App Store (iTunes.com/Macworld) for only \$1.99.



APERTURE 3 TAKES A CUE FROM iPHOTO

New version of Apple's photo-management software gets curves, and a whole lot more

By Russ Juskalian

REVIEW

Apple has finally updated its pro photo-management application, Aperture, to version 3, and it contains something for every level of photographer—Apple says that there are more than 200 new features. Some of those features have been long awaited and mysteriously absent from previous versions, like a curves-adjustment tool. Other enhancements include iPhoto (****) carryovers, such as Faces, as well as scores of new additions aimed at easing the sometimes tortuous workflow of photo management and raw-image processing.

Faces and Places

One thing is clear with Aperture 3: Apple wants to entice amateur photographers to step up from iPhoto, but doesn't want to alienate the pros. To do this, Apple offers new ways to organize images in Aperture: Faces (based on image analysis and user input) and Places (based on geographic location information), two features that will be familiar to iPhoto users.

You can use Places to link images to a map of the world; the map has various levels of magnification and uses a growing database of worldwide locations. Drop an image right onto the map to assign a



Color Adjustments Aperture 3 adds new color-adjustment tools including Curves, which allows users to see an expanded range and apply more than one curves adjustment to an image.

location, or import GPS data and link it to images in a project.

If you already use Aperture 2 (****) with a large library, you'll find, when you upgrade the program, that Faces can take a long time to churn through the image analysis the first time. Turning off Faces can speed up Aperture's performance.

New Adjustment Tools

What excites me most about Aperture 3 is the addition of a curves-adjustment tool, one of most powerful adjustment tools in digital photography. It can punch up colors, put contrast in the right places, and add pop to lackluster shots. Apple's implementation of it here is brilliant; it allows you to focus in on the shadow part of the range, zoom out to an expanded view, and create multiple curves adjustments for a single image.

There are also 14 new Quick Brushes tools that let you nondestructively paint in

adjustments like Skin Smoothing, Contrast, Halo Reduction, Noise Reduction, and so on. In addition, many of the normal adjustments can now be brushed in or out, not just applied globally. This approach is better than having to export an image to an external editor and then reimport it—adding a Photoshop file to Aperture takes up a lot of disk space, while edits made in Aperture are stored as space-saving metadata. Version 3 also adds preset adjustments and allows users to create their own presets.

Another nice improvement is the enhanced quality of Aperture's raw decoder. The new decoder produces better noise profiles (mainly less chroma noise, and more-filmlike luminance noise) and more-natural colors. Existing raw files must be reprocessed by the new Raw decoder to use the new adjustment tools.

As welcome as Aperture 3's improvements are, you can't group adjustments so



that you can brush in an area of a photo just once and then apply multiple adjustments to that area. Also missing is the ability for third-party companies to access the nondestructive raw pipeline for plug-ins.

Installation, Bugs, and Backups

While my experience with Aperture 3 has been mostly smooth, many early users reported sporadic crashes, slowdowns, and buggy behavior with the new release. To address these problems, Apple released the Aperture 3.0.1 update and the ProKit 5.1 update.

Updating older libraries to Aperture 3's updated raw decoder en masse can take a while. On the first launch of Aperture 3, you can deselect the option that offers to reprocess all images, and instead reprocess on an image-by-image or project-by-project basis as needed.

Unlike with previous versions of Aperture, once you reprocess your images using the new decoder, you can't go back to the old raw decoder.

It's a good idea to have multiple backups of your old library, and to bring in images to Aperture 3 slowly. At the end of the release notes for the Aperture 3.0.1 update, you'll find tips you should follow before upgrading your Aperture library.

Macworld's Buying Advice

Aperture 3 adds new features that will impress both amateurs and professionals, and make image organization, editing, and sharing easier. But as is the case with software aimed primarily at pro users, Aperture 3 requires a powerful computer to get the most out of it. For users of Aperture 2, updating to the new version could be well worth the price—though you might want to wait until Apple releases a 3.1 update to address any remaining stability issues.

Russ Juskalian is a freelance writer and photographer who has written for *Newsweek*, the *New York Times*, *Popular Science*, and *USA Today*. See his photography at russjuskalian.com.

 | **PRICE:** \$199 | **UPGRADE:** \$99
| **COMPANY:** Apple, www.apple.com

Image Capture Gets Smarter

By Rob Griffiths

As we've covered before, Snow Leopard addressed a long-standing complaint for those of us with multiple digital cameras: We can finally set different preferences for different devices. For example, when you connect your iPhone, you may not necessarily want iPhoto to launch, as it automatically did in OS X 10.5. In 10.6, you can change this behavior by running Image Capture while the device you wish to modify is connected and powered on.

Select your camera in the Devices section of Image Capture and then use the controls at the bottom of the left column to modify its behavior when connected. Use the pop-up menu to specify which program—if any—runs when you connect the camera. Select the top checkbox to share the camera over your local network. The second box lets you delete pictures after importing. These changes will be active the next time you connect the device.

These settings alone are a nice improvement on the (lack of) control in OS X 10.5. However, if you select the Autolimporter option, you can do even more. Autolimporter is a small application that automatically imports all the images from your camera when you connect it. Image Capture doesn't offer any control over how Autolimporter

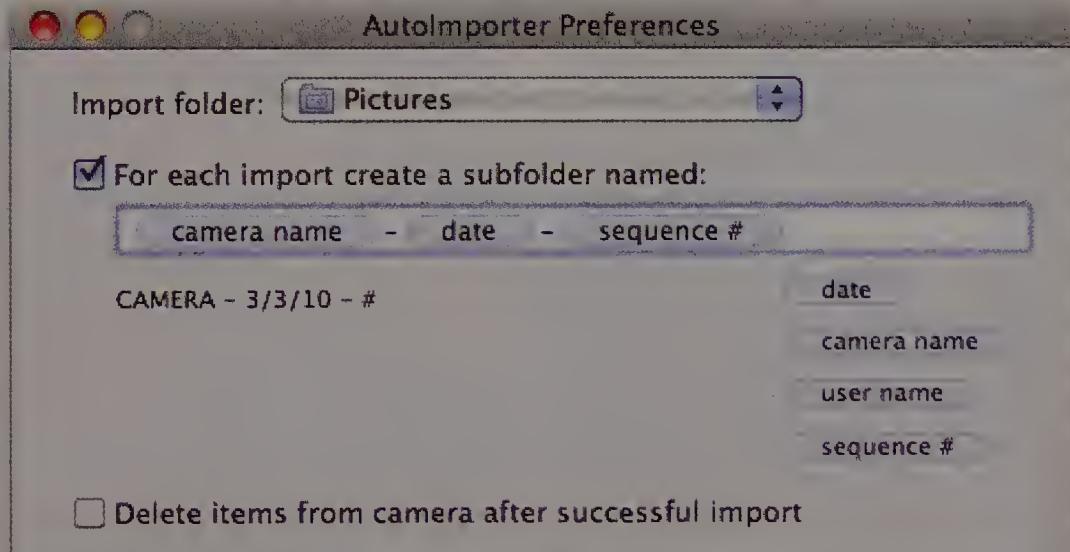
works, but this little program has preferences of its own.

To set the Autolimporter option, you need to launch the program outside the control of Image Capture or your digital camera. In the Finder, navigate to /System/Library/Image Capture/Support/Application. Double-click the Autolimporter application to launch it.

Once it's running, select Autolimporter ► Preferences to modify the program's behavior in a few useful ways. First, you can use the pop-up menu at the top of the dialog box to change the destination folder. Second, you can create a new custom-named subfolder. Select the checkbox to create a subfolder for each import, and then drag and drop the blue label items into the filename field. You can even intermingle your own text to create a naming scheme of your own. The final setting lets you delete images after importing them (you can also choose this setting in Image Capture).

Keep in mind that these settings will apply to any camera that you set up to use the Autolimporter. That's why it's good to create a naming scheme that includes the camera name, so imports from various cameras can be found in easily identifiable folders.

Once you've set the preferences to your liking, close the window and quit Autolimporter. From now on, any camera you set up in Image Capture to use Autolimporter will use the preferences you created.



Custom Import Folder Create custom-named import folders for your photos so that you can easily identify them.

HOW TO SHOOT INFRARED PHOTOS

By Derrick Story

One of my favorite suggestions for photographers looking for ways to spice up their work is to experiment with infrared photography. This technique captures light from the near-infrared end of the spectrum, which is otherwise invisible to the human eye. The resulting photos can be beautiful and dramatic. However, not all cameras can see this type of light. Here's a breakdown of what you need and how to set up your shot for IR photography.

Choose the Gear

Digital sensors are great at recording the infrared spectrum. To improve the camera's performance with normal photography, however, manufacturers now often install a filter called an IR-cut filter that blocks infrared light—thereby severely curtailing the camera's IR capabilities. As a result, you may want to look for an older digital camera—such as the Olympus C-2020Z, the Nikon CoolPix 950, or the Canon G1.

In addition to a compatible camera, you'll also need a special IR filter, such as the Hoya R72 (www.hoyafilter.com), which lets infrared light through but blocks much of the visible light spectrum.

If you have an iPhone 3GS, you may also be able to use it as an IR camera. However, figuring out how to secure the filter and control the focus requires a lot of practice and patience.

Check Your Camera

To get an idea of how sensitive your camera is to infrared light, try pointing a TV remote at it. Watch the LCD as you press buttons on the remote. (In order for you to conduct this test with a DSLR, the camera must offer a LiveView mode for previewing shots on the LCD.) If you see a white dot on the screen, then your camera detects infrared light. The brighter the dot, the more sensitive your camera is. That said, the most reliable way to test your camera's performance is to mount the filter and go outside to shoot.



Infrared Technique This IR photo of a vineyard was taken with a Canon G1.

You can have an older DSLR modified for IR photography by third-party technicians such as Life Pixel (www.lifepixel.com). For a few hundred dollars, the company will remove the IR-cut filter from the camera and replace it with an IR-sensitive filter. This allows more light to reach the sensor than a thick external filter would.

Get the Shot

The best part of IR photography is that midday is the perfect time to shoot—it provides creative opportunities during what most people consider the worst time of day for visible-light photography.

Because the more-dense IR filter will make your image fairly dark, it can be tricky to compose a shot on the LCD in bright sunlight. Remove the IR filter on a tripod-mounted camera, compose the shot, and then put the filter back on before setting the exposure.

The dense filter will require longer exposure times, so you'll definitely want to bring along a tripod. It can be tempting to switch to a high ISO setting

to shorten the long exposure time. However, at an ISO of 400 and above, you'll see plenty of image noise in your enlargements. There's nothing really wrong with this, since film-based IR images are grainy too. But if you're using a tripod, tone down the noise by shooting at a lower ISO.

The Results

Although we often think of dramatic black-and-white images for this type of photography, your camera will actually record these images in color—albeit an odd tone that is often magenta-tinted. You can convert to grayscale in postproduction, or you may choose to play with the color to create an eerie effect.

If all of this seems like too much work, check out these instructions (macworld.com/5919) on how to edit your photos to look like IR images by using iPhone apps and Mac software.

Senior Contributor **Derrick Story** teaches photography on Lynda.com and runs a virtual camera club at thedigitalstory.com.

PLAYING WITH TIME-LAPSE

By Heather Kelly

Time-lapse movies can speed up slow-moving action and compress hours, days, and even months into seconds and minutes. Now, thanks to a new crop of cameras, apps, and accessories, anyone can create a time-lapse movie.

Pick Your Tools Many digital cameras include a time-lapse mode that times and shoots images, and then collects them into a movie file. You choose the amount of wait time between shots and the duration of the overall shoot.

To make a test movie of a dehydrated plant coming back to life (macworld.com/5920), I used the Nikon Coolpix P90's (macworld.com/5907) time-lapse settings. If your camera doesn't have a self-timer, you can use an external intervalometer—a tool that triggers the shutter on a schedule. If you have a compatible camera, the DSLR Remote iPhone app (macworld.com/5650) has this setting.

You can use your iPhone's built-in camera to create a time-lapse movie if you have a timer app such as iTimeLapse

Pro (\$3; macworld.com/5908) or Joby's free Gorillacam app (macworld.com/5909). Don't have an iPhone? Use the free application Gawker (gawker.sourceforge.net) to create a time-lapse movie with your Webcam.

Do the Math Most time-lapse movies play 24 to 30 frames per second (fps). The ideal wait time between frames depends on the speed of the subject and the desired final movie length. To help calculate, you can download the Time-lapse Calculator (\$5; macworld.com/5910) app. Fill in the information you have—event duration, fps, or clip length—and the app figures out the rest.

Get the Setup Right To create a feeling of movement, experiment with longer exposure times—a small amount of blur in an image can minimize jarring transitions between frames. Set all of your camera settings to Manual (including the focus), mount your camera on a tripod, and begin.

If your camera doesn't automatically create a time-lapse movie, you can use



QuickTime Pro (QuickTime X doesn't have this feature). Snow Leopard users can install QuickTime 7 from the Snow Leopard install DVD. You can also use iStopMotion2 (\$49; boinx.com/istopmotion) from Boinx Software.

SNAPSHOT Go Underwater with a Point-and-Shoot

Journalist Danny Allen's Canon G9 (macworld.com/5911) has gone underwater, ventured into the snow, and held its own against dust storms. To keep it safe from the elements, Danny encased it in Canon's WP-DC21 housing (\$240). This shoot was taken while Danny was snorkeling in Barbados with some friendly turtles. He went down 6 feet below the surface and took this picture at f/4 at 1/250th of a second. Colors fade the deeper you go underwater, disappearing in light-spectrum order, so most underwater photos will have some amount of blue or gray tint. To get rid of the haze, you usually have to tinker with the white balance and saturation. Danny wanted to keep post-production to a minimum while traveling, so his only retouching was Picasa's I'm Feeling Lucky Button (macworld.com/5599). Autoadjustments can be a huge timesaver when you're on the go.—HEATHER KELLY



Reviews

HARDWARE, SOFTWARE, AND ACCESSORIES
FOR MAKING AND MANAGING PHOTOGRAPHS



HARDWARE

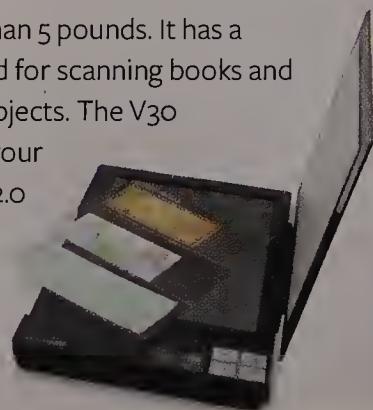
Canon PowerShot SD940 IS △

The Canon PowerShot SD940 IS is a sleek, easy-to-use camera with impressive image quality and good performance at high ISO levels. The camera does a good job of snapping bright and usable shots without a flash in near-pitch-black settings. It has a 4X optical zoom with a wide-angle lens, a 2.7-inch LCD screen, 12-megapixel image resolution, effective optical stabilization, and 720p high-def movie capture. Most impressively, it has very good image quality for a pocketable camera. If you've been considering the SD780 IS, pick the PowerShot SD940 IS instead. It has the same great looks and quality performance, but is a step up in specs, making it one of the best ultracompact point-and-shoots we've seen in the past year (macworld.com/5906).

4.5; \$300; Canon, usa.canon.com

Epson Perfection V30 ▽

Epson's Perfection V30 is an inexpensive flatbed scanner that boasts an optical resolution of 4800 dpi and 48-bit colors. It isn't the fastest scanner we've seen, nor does it produce the best image quality, but the V30 offers a terrific balance of quality, speed, and value. It's 1.6 inches thick and weighs less than 5 pounds. It has a 180-degree lid for scanning books and other large objects. The V30 connects to your Mac via USB 2.0 and requires an external power supply. With



high-resolution, high-bit scanning capabilities, impressive overall scan quality, and an affordable price, the Perfection V30 is a good fit for people looking for a capable, easy-to-use scanner (macworld.com/5637).
4.5; \$80; Epson, www.epson.com

Canon PowerShot G11 ▷

The 10-megapixel G11 is a camera that will appeal to point-and-shoot users who are ready for more power, control, and quality, but don't want to carry around a camera with the bulk of an SLR. Clad in all black, the G11 is a sturdy, attractive, small camera bristling with controls and dials. It's fitted with a retractable lens that provides a 35mm-equivalent zoom

range of 28mm to 140mm, and has a flip-out, swiveling 3-inch LCD screen. You'll find advanced features like priority modes, a full manual mode, program shift, and raw-format support. But it also has a capable automatic mode so you can use the camera as a basic point-and-shoot (macworld.com/5811).
4.5; \$500; Canon, usa.canon.com



Top Products

YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



DIGITAL CAMERAS

SLR

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
D90 (pictured) www.nikon.com	4.5	\$1039	12.3-megapixel	4966
EOS Rebel XSi www.canon.com	4.5	\$539	12-megapixel	3898
E-30 www.olympusamerica.com	4.5	\$949	12.3-megapixel	4453



DIGITAL CAMERAS

Point-and-Shoot

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
FinePix F70EXR (pictured) www.fujifilm.com	4.5	\$209	10-megapixel	5810
PowerShot G11 www.canon.com	4.5	\$459	10-megapixel	5811



PRINTERS

Inkjet

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
PictureMate Show PM 300 (pictured) www.epson.com	4.5	\$300	snapshot, photo	5905
Stylus Photo R1900 www.epson.com	4.5	\$400	professional photo quality	3649

^AAll prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^BIn a browser's address field, typing a find code after macworld.com takes you to a product's review or overview.



Macworld

Hot Stuff

WHAT WE'RE RAVING ABOUT THIS MONTH



Minox DSC Spy Camera

For a camera that's supposed to be incognito, the DSC Spy Camera from Minox is certainly eye-catching. The black-and-silver DSC is a digital take on Minox's classic film camera, which was actually used by real spies starting in the 1940s.

The 5-megapixel camera has a CMOS sensor and is 3.4 inches long and 1.2 inches high, perfect for covertly slipping into a pocket or small bag. Shooting in the dark? Use the built-in LED flash. If you need more light, you can use the included external flash, which attaches to the side of the camera. The flash unit also does double duty as a 1.5-inch LCD for previewing your images.

In addition to shooting still images, the DSC records 640-by-480-pixel video clips. It is powered by a rechargeable lithium-ion battery and comes with a mini USB cord. Save up to 16MB of top-secret videos and pictures to a microSD card.

Minox is creating an entire line of spy-inspired gear in addition to the DSC, including a pen, sunglasses, and a belt, all with hidden video cameras (\$200; www.license-to-shoot.com).—HEATHER KELLY

Gorillapod Magnetic

Gorillapod Magnetic takes the traditional Gorillapod design and adds magnetic feet that are made out of neodymium, a powerful alloy used in electronics. The Gorillapod Magnetic can hold up to 11.5 ounces of weight, perfect for compact digital cameras, mini video cameras, and iPhones. The Magnetic works with all Gorillapod accessories, including the iPhone case that comes with Gorillamobile for 3G/3GS (\$25; joby.com).—NICHOLAS BONSACK



SteadePod

The SteadePod is great for those times when you don't want to hassle with carrying a tripod or monopod, or when you need to steady your camera but don't have a lot of room. The SteadePod is a small gizmo that attaches to your camera's tripod mount, and has a sturdy cable that extends from its bottom. Pull out the cable, stomp your foot on it, pull your camera straight up, and you'll have instant stabilization. Also useful for video shooters, the SteadePod is no substitute for a full tripod or monopod, but it's a great addition for times when you're not willing to carry a heavier device (\$30; www.steadepod.com).—BEN LONG



BlackRapid R-Strap

There are camera straps, and then there are camera slings. A camera sling is a loop that you put over your head, and which has a special bracket that you attach to your camera. The advantage of a sling is that you never have to take it off. The camera slides up and down the strap so that you can leave it at your hip when it's not in use, or quickly slide it up to take a shot. The BlackRapid R-Strap is a well-made camera sling with a padded shoulder strap, a small pocket for extra flash media, and a metal mount that screws into your camera's tripod socket. You can quickly detach the camera from the sling if you need freer access (\$54; www.blackrapid.com).—BEN LONG



FLIPBAC ANGLE VIEWER

Whether you're shooting macro shots, holding your camera up over your head, or conducting espionage, having a flip-out LCD screen that tilts and pivots can be useful. The Flipbac Angle Viewer can add this capability to cameras with a 3-inch LCD. Essentially a mirror on a pivoting mount, the Flipbac attaches to your camera's LCD screen. When you're ready to shoot, flip out the mirror for a view of your screen. The image is reversed but it still provides a good view for macro work, or for shots where you'd rather not have a camera between you and your subject (\$20; flipbac.com).—BEN LONG



NEWSLETTERS SPARKLE WITH PAGES '09

Commemorate vacations, occasions, and get-togethers with a flourish

By Adam Berenstain

Who doesn't love getting something special delivered to their door to commemorate a holiday or significant event?

Newsletters are a great way to keep in touch, and with Apple's Pages '09 it's easy to create beautiful newsletters.

Start with iPhoto Photos will be a big part of your newsletter, and searching your iPhoto library can help you decide which events are worth sharing.

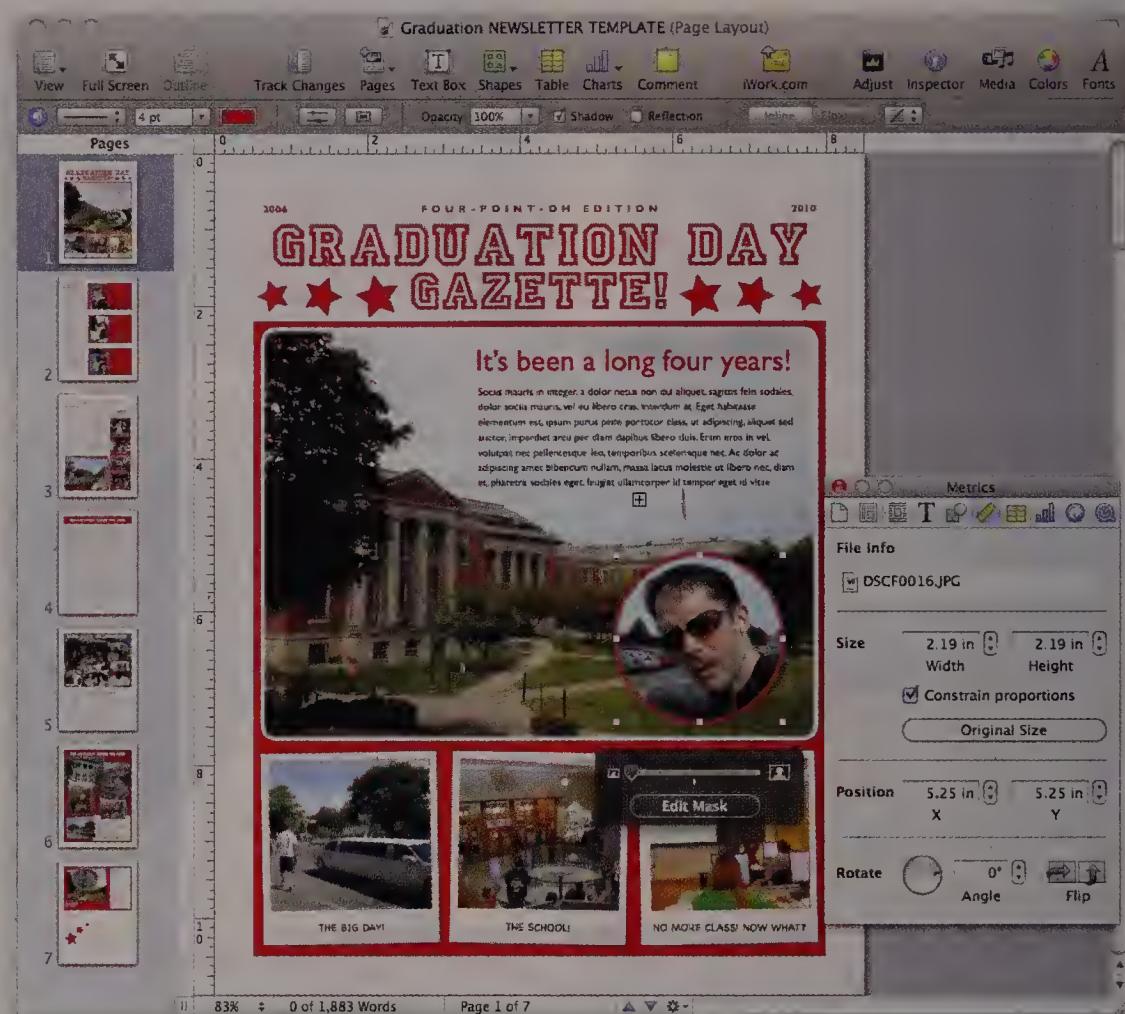
In iPhoto, select File ▶ New Smart Album and create an album of share-worthy photos. The Smart Album dialog box has three pull-down menus with contextual choices. Selections such as Album, Description, Face, Keyword, and others are paired with context-sensitive choices in the second and third menus.

Pick sharp, evenly lit pictures to help ensure your photos will look good when printed. Place your pictures in a separate folder, and give it a distinctive name.

Launch Pages In Pages, select File ▶ New From Template Chooser, and pick one of the Newsletter templates. Pages has no specific personal or holiday themes, but the Informal or Family theme may be appropriate. Informal looks contemporary and offers large photo placeholders on its template pages, while Family gives you more options for text-based page templates.

Insert additional pages by selecting Insert ▶ Pages, and reorder them by selecting View ▶ Page Thumbnails, and then dragging the pages in the sidebar.

To add photos to your pages, select View ▶ Show Media Browser (or click the Media button in your document's toolbar) and then drag your photos into the newsletter's placeholder images. To edit a picture, click it



Inspector Assistance The Inspector puts Pages' customization tools all in one place.

once and then drag the slider in the resulting window to change the photo's magnification. Double-click and drag the image to adjust its position in the frame, and then click **Edit Mask** and drag the frame's handles to change its size. Select **View ▶ Show Adjust Image** to fine-tune your picture's color, exposure, and contrast settings. You can even select **View ▶ Show Inspector**, and use the **Rotate** tool in the Metrics inspector to tilt your images at a pleasing angle.

Get with the Spirit Now it's time to edit each page's placeholder text to suit your message. Use the Text and Graphic inspectors to change text and object

colors. To change the color of a shape behind a text box, select the shape and choose **Color Fill** in the Graphic inspector's pull-down menu. Click the **Color Fill** swatch to pick a new color.

Some objects may be locked so you can't edit them, however. To unlock them, select them and choose **Arrange ▶ Unlock**.

The Text inspector lets you change the format of headlines and other text. To change a font, select the text and choose **View ▶ Show Format Bar**. Here, pull-down menus at the top of the window let you choose new fonts and text sizes. Photos set within fun shapes make great page

decorations. Just select Insert ▶ Shape and choose a shape you like. Then drag a picture from the Media Browser into the shape, and edit the shape and picture.

A preaddressed Mailer page lets you fold your newsletter in half and mail it without an envelope. If you choose this option (Insert ▶ Pages ▶ Mailer), keep your recipient's address decoration-free so post office scanners can read it.

Print or Export to PDF When you're done and ready to print your newsletter,

choose File ▶ Print. If you're printing at a copy shop, select File ▶ Export, and choose PDF in the resulting dialog box. Be sure to choose Best in the Image Quality menu, and then save the file to a flash drive or the desktop so you can burn it to a disc. Family newsletters in Pages '09 are easy to create and make fun mementos of holidays or celebrations for family and friends.

Adam Berenstain is a freelance writer in upstate New York.

Proximity Principle Promotes Vibrant Designs

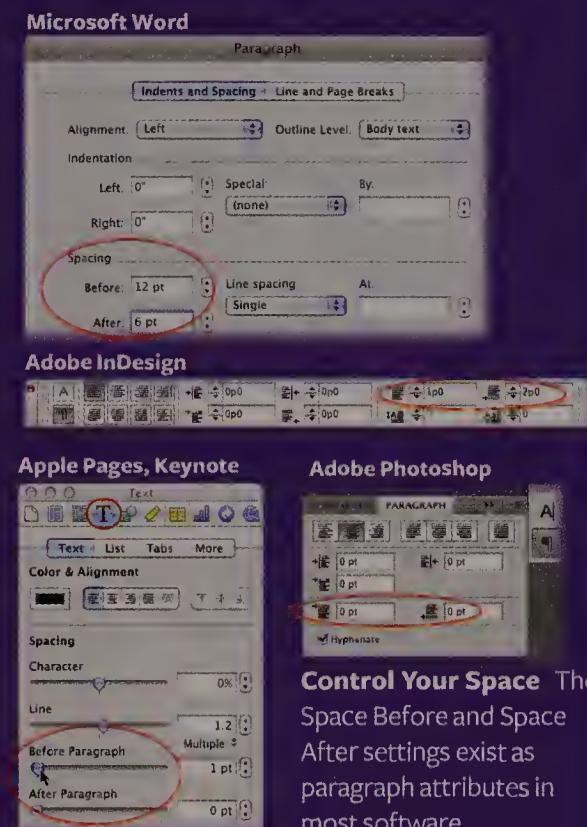
Good design isn't difficult to achieve, though sometimes it can feel like it is. But even if you've never taken an art class, you can create eye-catching, easy-to-read layouts by using the proximity principle, which emphasizes the importance of spacing.

One of the easiest ways to give your piece a visual structure and an organized feel is to space items according to their relation to one another. This is called the rule of proximity, and it says that related items should appear closer together than unrelated items. Spacing serves as a visual clue to what is and isn't related and to where information stops and starts. It makes the piece easier to comprehend.

Sure, you could add line returns in your layout, but a full return often adds too much (or too little) space. It's better to use the Space Before and Space After settings built into many software packages. These controls let you add a specific amount of space exactly where you want it: Place your cursor within the line you want to affect (no need to highlight the text) and locate the Space Before and Space After paragraph attributes in the software you're using. Here's where those settings live in some popular programs:

- > Microsoft Word, Trans-Tex Software's Tex-Edit Plus: In the Format menu (in Word, choose Format ▶ Paragraph; in Tex-Edit Plus, choose Format ▶ Paragraph Format).
- > Apple Pages, Keynote: In the Text Inspector (choose View ▶ Show Inspector and click the big T).
- > Adobe Photoshop: In the Paragraph panel (choose Window ▶ Paragraph).
- > Adobe InDesign, Illustrator: In the Control panel when the paragraph icon is active (choose Window ▶ Control and click the paragraph icon).
- > QuarkXPress: In the Measurements palette when the paragraph icon is active.

This one principle gives you the basis for creating pleasing, readable designs. For more information about this and other basic design principles, check out *The Non-Designer's Design Book*, by Robin Williams (Peachpit Press, 2008).—LESA SNIDER



Control Your Space The Space Before and Space After settings exist as paragraph attributes in most software.



Color-Correct Your Video in iMovie

By Jeff Carlson

These days, it's easy to capture good-quality video, but sometimes the camera misreads the brightness, color balance, or ambient lighting, or it adds a color tint. If it does, you can use iMovie '09 or '08 to correct the flawed footage.

Select a clip in either the Project Browser or the Event Browser and press V; alternatively, click the Action menu and choose Video Adjustments. The Inspector appears, with the Video tab selected.

Adjust Brightness To make a scene brighter or darker, either drag the Exposure slider to change the values of highlights and shadows or drag the Brightness slider to adjust the overall light level.

Adjust White Point A room's lighting can confuse a camcorder into using the wrong value for white, which can lead to unwanted orange or green hues. Here's how to fix the white point.

With the Video Inspector visible, direct your pointer to an area of a selected clip's image that should be white and click. Or, drag within the color wheel in the Inspector's White Point section to modify the image's appearance.

Modify the Gain Sliders The gain sliders adjust for any color casts that remain; these controls appear in the Inspector when the Show Advanced Tools option is enabled in iMovie's preferences.

Note that the clip's icon doesn't reflect the changes you make, but the footage in the Viewer does reflect the adjustments.

VERDANA: NOT JUST ANOTHER PRETTY FACE

Screen font goes pro with new weights and styles to accommodate print designs

By Jay J. Nelson

The typeface Verdana was released in 1996 as an easy-to-read font for Websites. In the intervening years, it has been used and misused in just about every imaginable way. Designed for on-screen use, Verdana's wide-open letterspacing often makes it inappropriate for printed materials. And its limited styles of regular, italic, bold, and bold italic may not provide enough options for sophisticated designs.

But now, the team behind the original Verdana is working on an improved, expanded typeface family designed for both print and the Web. The Pro version, along with an expanded version of the Georgia typeface (Verdana's serif companion), should be available shortly.

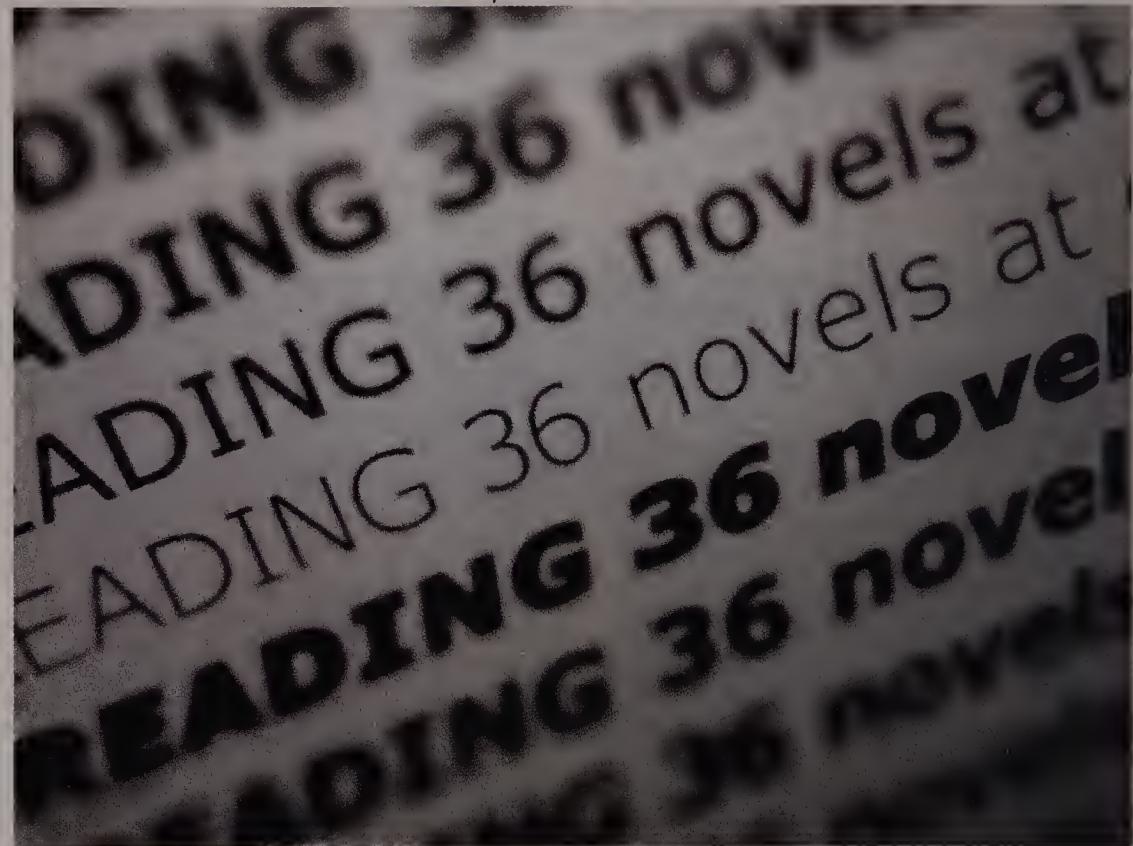
Verdana's Clarity

Verdana is popular with designers for a number of reasons. Verdana's letters have large x-heights and open counters, so they don't plug up at small sizes. There is a distinct contrast between the regular and bold weights. Letters have plenty of space between them and similar-looking characters (*i* versus *l* versus *j*) are clearly distinguished by their design.

Verdana includes extensive TrueType hints for improved rendering. Hinting adds information to the font file that tells a display device how to best draw the edges of the letters for the resolution of that device. A 72-dpi display has many fewer pixels to work with than a 1200-dpi printer, so hints tell the display exactly which pixels to use.

Another reason for Verdana's wide adoption by Web developers is its extensive character set. Verdana includes the WGL (Windows Glyph List) Pan-European character set, so you can use the same font for setting English as well as all the European languages.

Verdana was designed by Matthew Carter, the typographer behind many



The Pro Version Verdana Pro features an abundance of new weights and styles.

legible typefaces. Carter is now overseeing the reworking and expansion of the Verdana and Georgia font families, with David Berlow of The Font Bureau leading the effort to develop Verdana Pro, and Steve Matteson of Ascender leading the Georgia Pro team.

New in Verdana Pro

The new Verdana Pro and Georgia Pro font families will be available from both Ascender and The Font Bureau. They will be priced at \$40 per font or \$300 for each family of 10 fonts (licensed for use on one workstation).

The designers have several goals. They are extending each family to include 20 fonts, creating Light, Semibold, and Black variations (each with matching italics), and creating a new Condensed family with all the same weights and styles. Each of these fonts has an extensive character set, with support for all European languages. They also have

professional OpenType features, including small caps, ligatures, and old-style numerals. Enhanced kerning ensures that letters fit together organically on the printed page.

What's in a Name?

If the new fonts were simply named Verdana, that would create extreme confusion in the design world. With their new letterspacing and kerning pairs, lines of text using the new Verdana would wrap differently than the original font.

Thus, the new font families will be distinguished from their earlier counterparts by including the word *Pro* in their names: Verdana Pro, Verdana Condensed Pro, Georgia Pro, and Georgia Condensed Pro.

People who want an improved version of Verdana, with more style options and a far better printed appearance, will welcome Verdana Pro to their font arsenal.

GROW YOUNGER

Reverse the signs and symptoms of aging.

It's a cutting-edge wellness program unlike anything you've ever experienced. Featured on *60 Minutes* and *Nightline*, it can make you **look and feel younger**. A lot younger.

Cenegenics® is a customized combination of the latest advances in nutrition, exercise and, when clinically indicated, hormone optimization.

Join the 20,000 professionals, including physicians, who are dramatically improving their quality of life.

- **LESS** risk of age-related disease
- **MORE** muscle tone
- **LESS** body fat
- **MORE** energy
- **CLEARER**, sharper thinking

Get the edge you need. Call now to speak with a Cenegenics® medical doctor.

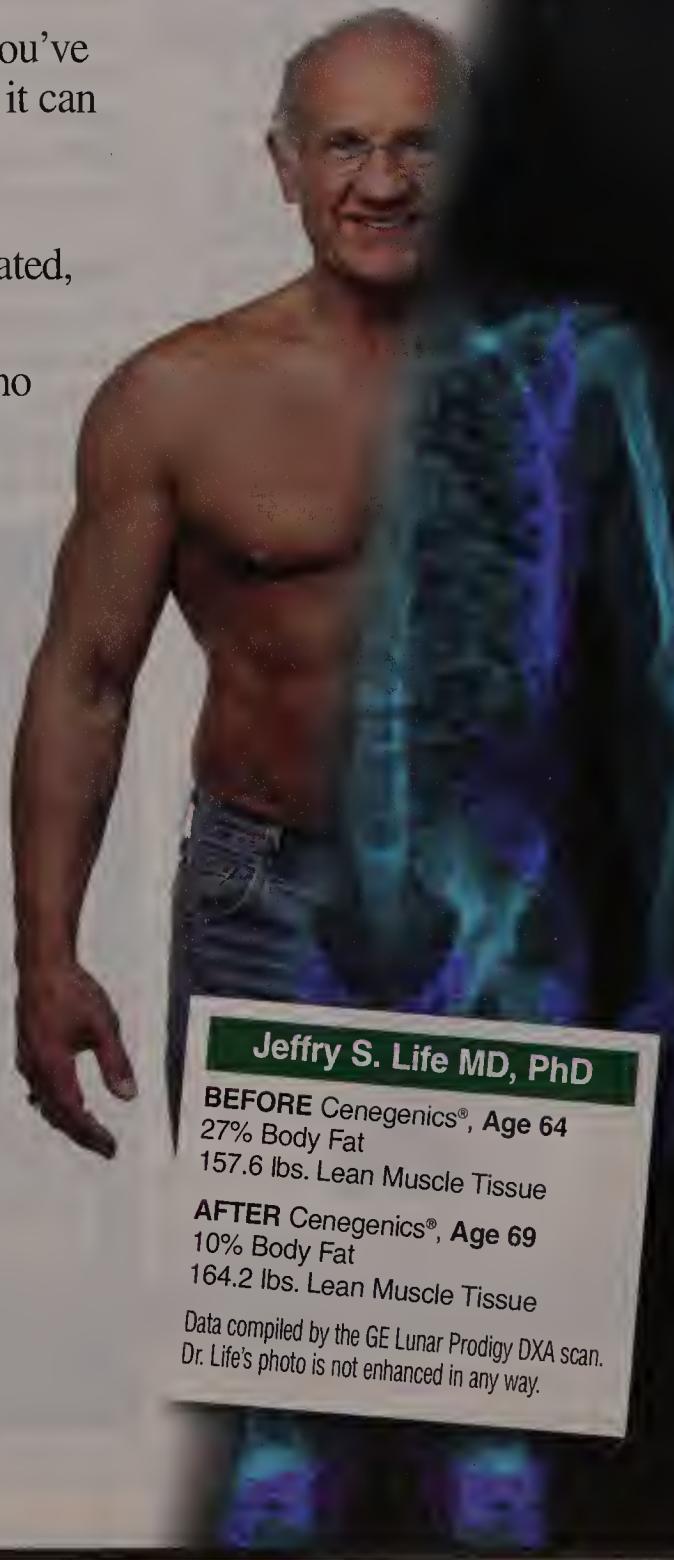
Confidential, No Obligation Consultation

1-866-634-8549

www.cenegenics-mw.com

 **CENEGENICS®**
medical institute

No insurance or Medicare accepted. Most patients who strictly adhere to the Cenegenics program for 6 months or more will see these benefits.



Reviews

HARDWARE, SOFTWARE, AND ACCESSORIES
FOR YOUR CREATIVE ENDEAVORS

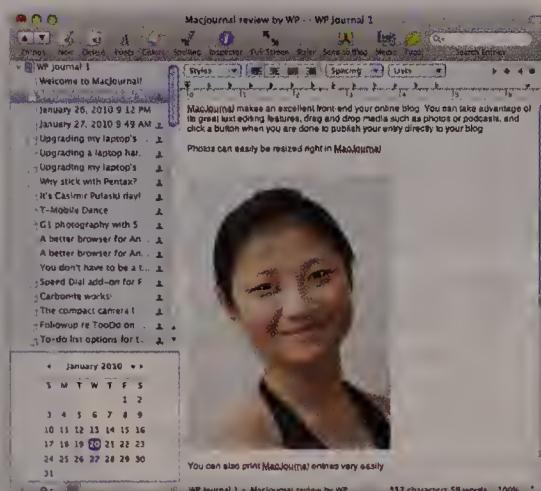


SOFTWARE

ArtRage Studio Pro 3.0.5 △

ArtRage Studio Pro 3.0.5 does an excellent job of recreating the subtle nuances of natural media on a digital canvas, and it's easy to learn and use quickly. Although the software has a number of interface quirks and some brushes can be slow, it's certainly worth considering if you're a traditional artist looking to trade in your messy paint tubes for a tablet. A stroke of paint can be much more than a simple swatch of color: It can have a wet gloss, a rippled surface, and seep into the canvas. Ambient Design brings these subtleties to ArtRage. The application is occasionally sluggish, the interface can be frustrating, and Wacom tablet gesture support is unusable. Plus there's no Multi-Touch support with Apple notebooks (macworld.com/5913).

4 1/2; \$80; Ambient Design, www.artrage.com



MacJournal 5.1.4 △

Do you keep a diary on your computer? Do you blog, but hate your blogging service's editor? Do you find yourself using your word

processor to write notes, and then find it difficult to locate those notes later? If the answer is yes to any of the above, check out MacJournal 5.1.4, a journaling program—part word processor and part file manager. It can handle a variety of media, including photos and videos, but at the heart of the program is a very capable text editor, built on Mac OS X's text services and Quartz 2D Extreme. The editor is so good that you could use it as your main word processor, so long as you don't need advanced formatting options. If you're interested in expressing and organizing your thoughts, storing them all in one place, and keeping them private, then there's no Mac program better for the job than MacJournal (macworld.com/5914).

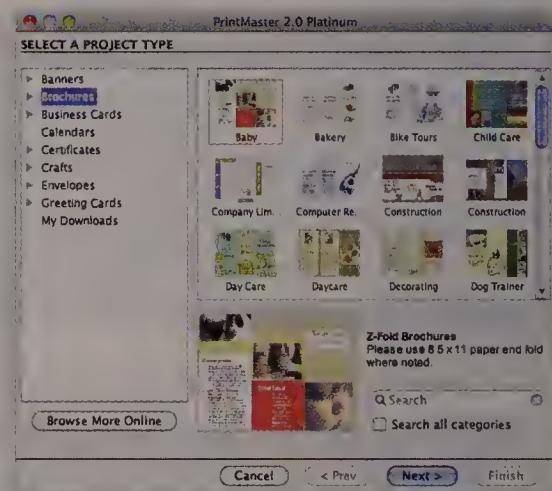
4 1/2; \$40; Mariner Software, www.marinersoftware.com

PrintMaster Platinum 2.0 ▷

When you want to turn a good photo into a great story, PrintMaster Platinum 2.0 helps you put one or many of your favorite photos into an inviting layout that you can share easily with family and friends. You can create many differ-

ent types of projects, such as banners, business cards, calendars, certificates, crafts, envelopes, and greeting cards. This excellent program has a variety of tools for adding photos, inserting and styling text, and enhancing the project with custom backgrounds, paper styles, shapes and lines, headlines, and clip art. If you want to do more with your photos than store them on a hard drive, e-mail them to friends, or put them in an online photo album, then PrintMaster Platinum 2.0 is for you (macworld.com/5915).

4 1/2; \$40; Broderbund, www.printmaster.com



Top Products

YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED

DVD BURNERS

Desktop and Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
MediaStation 8X External Blu-ray Writer (pictured) www.buffalotech.com	4 1/2	\$320	Blu-ray	5344
d2 DVD±RW w/LightScribe www.lacie.com	4 1/2	\$90	desktop	3900

CAMCORDERS

High Definition

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Flip MinoHD (120 Minutes) (pictured) www.theflip.com	4 1/2	\$230	mini camcorder	5512
Vixia HG21 www.canon.com	4 1/2	\$1112	120GB HD	5182

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

Macworld Superguides

NEW!

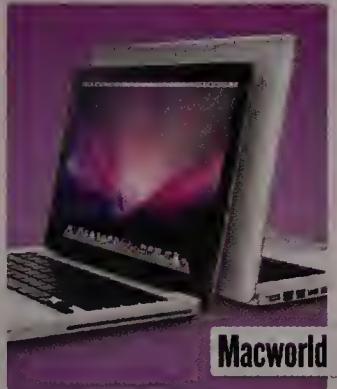
NEW!

MAC GEMS

240+ Software Bargains



Mobile Mac Superguide



Mac Security Superguide



Total Snow Leopard



Macworld Superguide

Macworld Digital Photography Superguide



iPhone & iPod Touch Superguide



PDF or CD-ROM Only

Macworld Superguide

Mac OS X Hints

Snow Leopard Edition By Rob Griffiths

NEW!

Mac Basics SUPERGUIDE



Snow Leopard Edition Macworld

Macworld's Superguide Series

These handy books are produced by the editors at Macworld. Packed with practical how-to's, the best tricks, in-depth features, trouble-shooting advice, tips and more.

Macworld Superguides are available in 3 convenient formats: 1) Downloadable PDFs: Get immediate access. 2) Printed Book: Order a handy, full-color printed book on high-quality paper. 3) PDF on CD-ROM: Don't want to download the PDF, get it on CD-ROM.

ORDER NOW!

www.macworld.com/superguide

MAC OS X HINTS

The insider tips you won't get from Apple

By Rob Griffiths

Rotate Your User Image

In some of OS X's built-in applications, you can choose a photo as your personal icon. In Address Book, for example, you can select your entry, click Edit, and then double-click the picture box next to your name. That will summon a window where you can take a picture with a connected camera, insert an image file, or paste an image from the Clipboard. That window has another feature that's less well known: You can also rotate the image.

To do so, hold down the Option key and then click and drag with your mouse or trackpad. As you do, the image will rotate; an overlaid clock face of sorts will appear, to help you align the image. This trick should work in any program that uses the picture-choosing interface.

Enable Missing Services

When Snow Leopard came out, Apple touted the operating system's improved implementation of services. While previously you could access the Services menu only by selecting *applicationname* ▶ Services, you could now access it from contextual menus, too. So, for example, if you select some text in TextEdit and then



Rotate Image In the picture-choosing window (found in Address Book, iChat, and other OS X applications), you can add an image for a contact—and rotate it so that it appears at different angles.

Control-click the selection, the contextual menu will have a Services entry, from which you can choose services appropriate to your selection—New Note With Selection, New Email With Selection, and Make New Sticky Note.

Unfortunately, those contextual menus don't always contain the services you'd expect. This bug has persisted through version 10.6.2. But there is a fix.

Open System Preferences, and go to the Keyboard Shortcuts tab in the Keyboard preference pane. In the left column, select Services. In the right column, find the menu entries that

aren't showing up. (For example, in the case above, scroll down to the Messaging section, where you'll see entries for New Note With Selection and New Email With Selection.) Click the checkmark next to a missing entry to remove it and then click

again to put it back. Repeat this process for the other services you want to revive. When you return to your application and Control-click, you should see the missing services.

If they still aren't there, you may be out of luck: Some services will never show up in the contextual menu. That's apparently a deliberate design decision on Apple's part, to keep the contextual menu from growing unwieldy. If a service doesn't show up after you've toggled it on and off, it should still be available on the *applicationname* ▶ Services menu.

Find Exact Dups in iTunes

You probably know that iTunes has a built-in tool to find duplicates in your library: You select File ▶ Show Duplicates, and iTunes creates a list of all the songs it believes are dups.

Have a Hint to Share?

Go to MacOSX-Hints.com to submit it. This column was based on tips from Sasha Chhabra, A.J. Weissbard, and anonymous contributors. Each month, the author of our favorite tip receives the *Help Desk* mug.



POWER TIP OF THE MONTH

The only problem with this feature is that it's quite liberal in deciding what is and is not a duplicate. As a result, the list of potential dupes can be very long—especially if you have several versions of the same song by one artist.

As it so often does, the Option key can help. Hold it down and then open the File menu. You'll see that the Show Duplicates menu item has changed to Show Exact Duplicates. When you select it, the resulting list will be much shorter than before, because iTunes will apply much stricter criteria for determining the dupes.

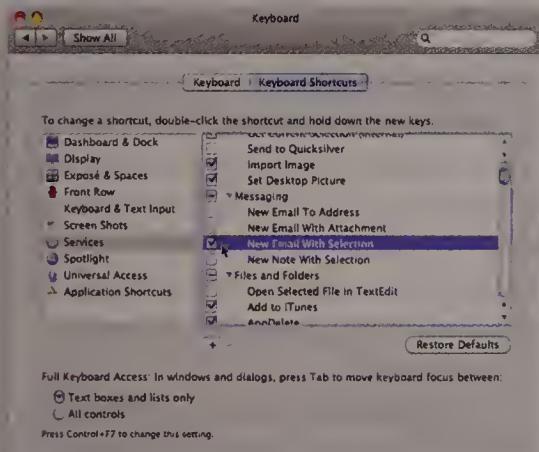
Selectively Consolidate iTunes Files

Unless you've set iTunes to automatically copy media files into the iTunes Music folder when adding them to your library, you're probably familiar with the File ▶ Library ▶ Organize Library menu item. You can use it to move new files to your iTunes Music folder, making for neater organization and easier management.

At one time, this option worked on music files only. But as of iTunes 9, if you've opted to use the new iTunes Media folder structure, it consolidates all types of media files.

But what if, say, you prefer to keep your large video files on another drive. If you choose Organize Library to copy some newly added music to your Music folder, iTunes will copy all of your library's video files to that folder, too.

Here's the workaround: Select the tracks you want to copy into the iTunes Music folder, Control-click one of them, and select Consolidate Tracks from the



Enable Services If a service isn't in the contextual menu, try toggling it off and then on again.

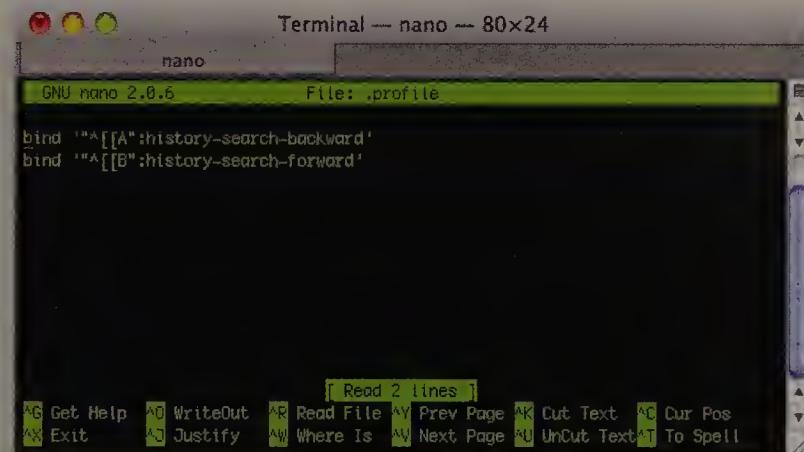
Browse Your Command History

You may know that you can browse through your Terminal command history with the Up and Down Arrow keys. You can also search it by pressing Control-R and then entering a string; by pressing Control-R again, you can cycle through the commands containing that string. But you can also configure the shell so that, if you start typing a command and then press the Up Arrow key, you'll find commands beginning with whatever you typed.

To make this work, open Terminal, and type `nano .profile`. (If you have a `.bash_profile` file, edit that.) In the nano editor, type `bind ''` and press Escape-V. (The tag [**Verbatim Input**] should appear at the bottom of the window.) Press the Up Arrow key; when you do, you should see `^[[A` added to the command you just typed. Now type `:history-search-backward`

Press Return to move to a second line; then type `bind ''` and press Escape-V again. This time, press the Down Arrow key. You should see `^[[B` appear in the command. Now type `:history-search-forward`. Press Control-X then Y (to save changes), and Return (to accept the filename).

When you restart Terminal, the arrow keys should now initiate searches for commands beginning with whatever you type. To undo this tweak, edit the `.profile` file again to remove those two lines.



contextual menu. Now, iTunes will consolidate only the selected tracks.

Reduce iPhoto Launch Times

Some iPhoto users complain that the app takes too long to launch—more than a minute, with frequent appearances by the spinning beach ball. Fortunately, there's a simple solution to the problem.

When iPhoto finally launches, open Preferences (⌘-comma [,]) and then click Sharing. In the Sharing pane, if the Look For Shared Photos or Share My Photos boxes are checked, and if you don't need those services, uncheck the boxes. If you use one but not the other, uncheck the one you don't need; if you never access other shared libraries, for example, uncheck Look For Shared Photos.

This remedy won't cure all iPhoto launching delays—but if you don't share photo libraries, it can't hurt to try it.

Use iChat with Facebook

If you use both iChat and Facebook and wish you didn't have to switch between the two to chat with friends, you can do it all from iChat.

In iChat, open Preferences, and go to the Accounts tab. Click the plus sign (+) at the bottom of the window to add a new account. Select Jabber Account from the Account Type drop-down menu. Enter `yourusername@chat.facebook.com` in the Account Name field and your Facebook password in the Password field. Next, click on the disclosure triangle next to Server Options. Enter `chat.facebook.com` in the Server field, and `5222` in the Port field. Make sure the Use SSL box is unchecked. When you're finished, click Done.

You should now be able to chat with both your Facebook friends and your iChat buddies from within iChat.

MAC 911

Solutions to your most vexing Mac problems

By Christopher Breen

Cure for the Common Double-Cap

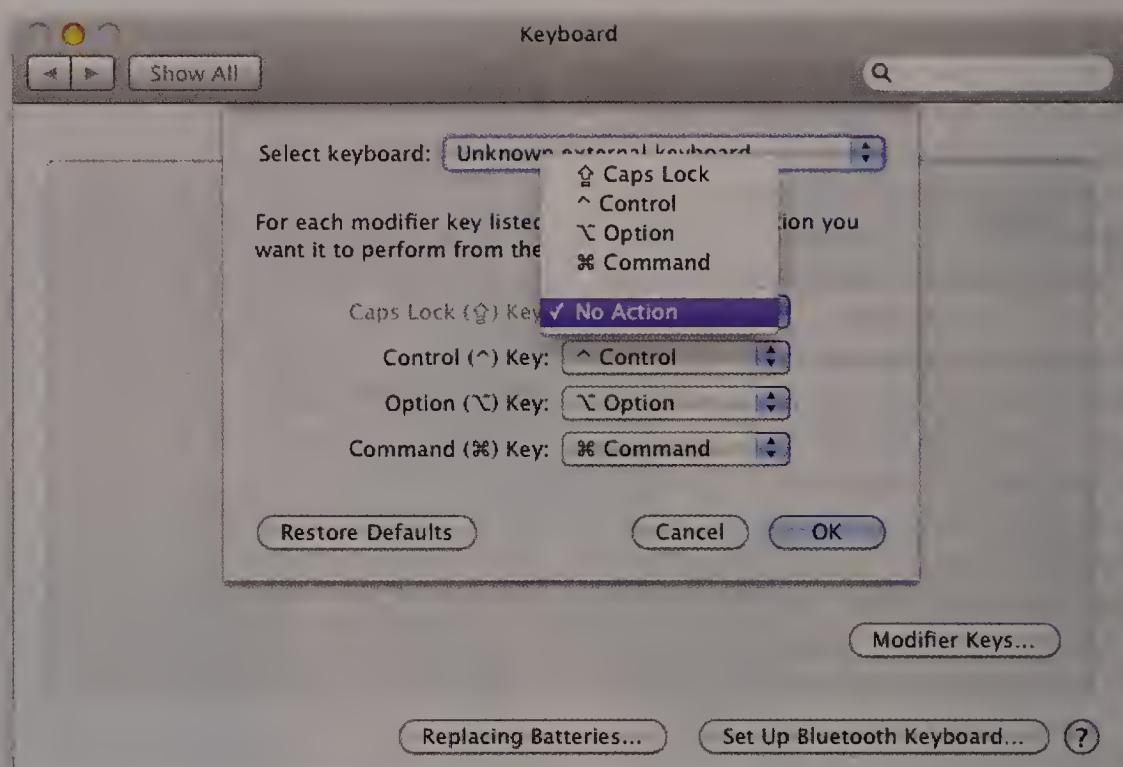
Q: I am a LOusy typist. I am FOrever hitting double-CAPS when I type in MAil. Microsoft Word has an autocorrect function that SEems to work just fine. I can't find this kind of option in Mail. Is there anything built into the Mac OS that can help me?

Jim (Gil) Gillivan

A: Regrettably, no. Snow Leopard (Mac OS X 10.6) includes a Text Substitution feature (found in the Text tab of the Language & Text system preference) that can help ensure that, when referring to yourself, you type "I" rather than "i," but it can't identify and correct double-caps.

However, Rainmaker Research's Spell Catcher X (www.rainmakerinc.com) can. Available in lite (\$30) and full (\$40) versions, Spell Catcher X includes an interactive component that can automatically fix doubled capital letters.

I understand that paying \$30 or \$40 for this one feature is a lot. Thankfully, Spell Catcher X can also automatically "smarten" quotes and punctuation, turn consecutive hyphens into em dashes, capitalize proper names, capitalize a sentence's first word, prevent double-spaces, and convert fractions from something like 4/5 to a more petite version. Additionally, it includes an autocomplete feature (type a shortcut and that shortcut is expanded to boilerplate text you've saved), keylogging, a spelling checker more



Disable Caps Lock If you're plagued by double-caps caused by misuse of the Caps Lock key, disable it in the Keyboard system preference.

powerful than that offered in OS X, a thesaurus, and support for multiple languages. And you can configure Spell Catcher X so that each application uses its own set of these features—Mail will correct double-caps but not convert fractions, for example.

If these features don't tempt you and this is the only typing mistake you ever make, I have other suggestions. You could slow down when typing—too-fleet fingers may cause you to not let go of the Shift key in time. Or try a different keyboard, because the one you're currently using may be too quick on the draw for your typing style. If the problem stems from accidentally hitting the Caps Lock key, disable it by choosing the Keyboard (in Snow Leopard) or Keyboard & Mouse (in Leopard) system preference, selecting the Keyboard tab, clicking the Modifier Keys button, and, in the sheet that appears, choosing No Action from the pop-up menu that appears next to the Caps Lock entry (see "Disable Caps

Lock"). From now on, leaning on the Caps Lock key will have no effect on your Mac.

Troubleshooting a Missing Apple TV

Q: My Apple TV doesn't show up under the Devices heading in iTunes' sidebar. Any suggestions?

Mark LeSage

A: I can tell you for certain that "growling" at it doesn't work (and yes, I've tried). Try each of these steps in order until one works:

1. Unplug the Apple TV and then plug it back in to reboot it. This solves the vast majority of Apple TV problems.
2. Make sure that you're using the latest versions of the Apple TV and iTunes software.
3. Is the Apple TV able to talk to the world? Ask it to play a trailer or an Internet radio station to ensure that it's communicating over the network. Likewise, make sure your Mac can also



Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) for help with your misbehaving Mac or applications.

connect to the outside and other devices on your network.

4. On the Apple TV look at Settings ▶ Computers. Is the Apple TV linked to the Mac you expect it to be synced to?

5. Are your Apple TV and Mac on the same network?

6. Run Software Update (look for this option under the Apple menu) and check to see if there's a Bonjour update available to you. The Bonjour Update 2010-001 has been known to reestablish a severed Apple TV/Mac relationship. (Note that Apple hasn't posted this update to its site; it's available only via Software Update.)

7. On the Apple TV, choose Settings ▶ Computers, select your linked Mac, press the remote's Play/Pause button, and in the Disconnect From iTunes screen choose Continue and press Play/Pause. You have just told your Apple TV to forget about your Mac.

Open iTunes' Preferences and select Apple TV. If your Apple TV appears here, select it and choose Remove Apple TV. iTunes has now forgotten your Apple TV.

Return to the Apple TV, choose Settings ▶ Computers, select Connect to iTunes, note the five-digit code, dash back to your Mac, select the Apple TV under the Devices heading (assuming it's there), enter those same five digits, name the Apple TV, and click OK. The Apple TV should now appear in iTunes' Preferences, and your Mac's name should appear in the Computers screen on the Apple TV.

8. On the Apple TV choose Settings ▶ General ▶ Reset Settings ▶ Factory Restore. This takes your Apple TV back to ground zero. Every bit of media on it will be erased and it will revert to the software version that came with it. Once it reboots you'll likely have to update its software. Hopefully, when you do that, it and iTunes will see eye-to-eye.

9. Try reinstalling iTunes.

Enable Bluetooth Sharing in Snow Leopard

Q: In Mac OS X 10.5 (Leopard) you could right-click (or Control-click) on a file, select More, and then choose an

Bugs & Fixes

BY TED LANDAU



iTunes 9.0.3 Fixes Password

Bug Recently, Apple released iTunes 9.0.3. The update's primary bug fix is "iTunes no longer ignores your 'Remember password for purchases' setting." In other words, if you enable this iTunes Store option, you will no longer have to reenter your password each time you make a purchase. In truth, if you are logged in to your account, the dialog box is now skipped altogether. Prior to 9.0.3, enabling this option in iTunes 9 had absolutely no effect.



Using an iSight Camera with Flash Player

Open a Web page designed to work with Adobe's Flash Player, and you can get an iSight camera (the one built into every recent MacBook, iMac, and Cinema Display) to function within Safari or any other Flash-compatible Web browser. Regrettably, doing so isn't a completely transparent process, but here's how:

Go to any Web page that uses Flash to work with a Webcam. I chose the Webcam

page from fonomo.com, a site that offers free videoconferencing. After the page loads, an Adobe Flash Player Settings dialog box appears that contains buttons for allowing and denying access to the Mac's camera and microphone.

If you click Allow, the dialog box will vanish, but the camera won't work. Instead, Control-click (or right-click) on the dialog box. From the contextual menu that appears, select Settings; a Privacy dialog box appears, which, among other things, contains the icon of a Webcam. Now click the Webcam icon button. In the resulting dialog box, choose USB Video Class Video from the pop-up menu. Click the Close button and you return to the initial Settings dialog box. From here, click Allow. The iSight camera should turn on and you should see yourself in the Web page's Webcam window.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

option to send the file to a Bluetooth device. In Snow Leopard this feature was removed, but I found it really handy. Is there a way to bring it back again?

Nick Bradsworth

A: Launch System Preferences, choose the Keyboard system preference, and click the Keyboard Shortcuts tab. Select Services on the left side of the window, and under the Files And Folders heading, enable the Send File To Bluetooth Device option (see "Enable Bluetooth Service").

Now, when you right-click on a file, you'll see the option you desire at the bottom of the contextual menu. Select it and Bluetooth File Exchange opens. Select the device you want to send the file to and click the Send button at the bottom of the window. Alternatively, you can select the file and press ⌘-Shift-B.

In order for this to work you must enable Bluetooth Sharing in the Sharing

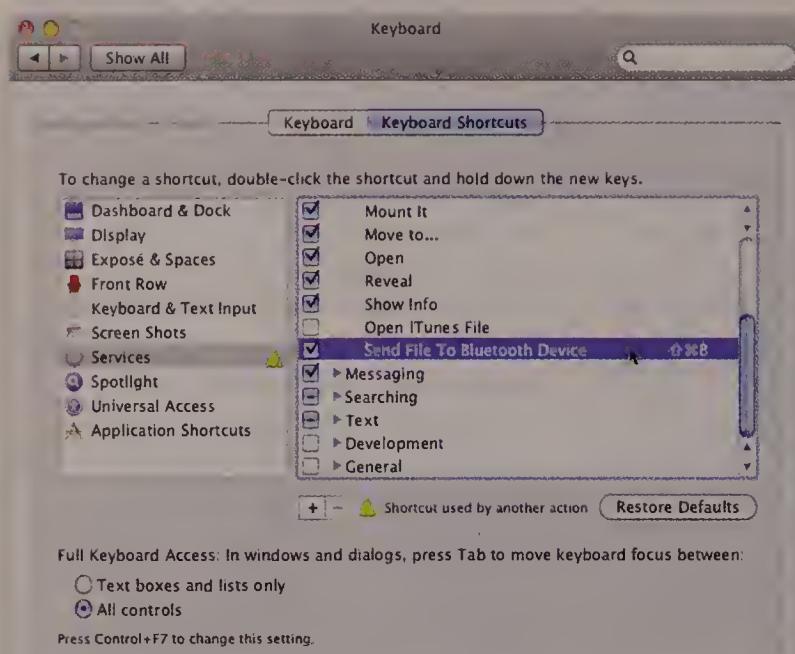
system preference. And, of course, the device you're sending to must be paired with your Mac.

Dealing with Incompatible Extensions

Q: An error message shows every time I start my MacBook Pro—"System Extension Cannot Be Used," followed by the name of a file. What does this mean?

Marc Manassian

A: You'll see these kinds of errors when an incompatible system extension is installed on your Mac. These errors are commonly seen when you first update to Snow Leopard after migrating from an older version of the Mac OS. When you boot your Mac, Snow Leopard checks its naughty-or-nice list, finds those incompatible extensions, refuses to load them, and then tells you that it's done so.



Enable Bluetooth Service Regain the option to send files from the Finder via Bluetooth by enabling this service.

The message details exactly what you need to do if you don't want to see these warnings—update the applications from whence these bits of

around in the /System/Library/Extensions folder at the root level of your Mac's startup drive and chuck out the offending files.

incompatible business sprang.

If no updated versions exist, you can try reinstalling the applications. It's possible that during the OS upgrade something went awry so that extensions that should be kosher aren't (permissions issues, for example). If reinstalling them does not work, contact the application developers and ask when updates might be available.

At this point, feel free to rummage

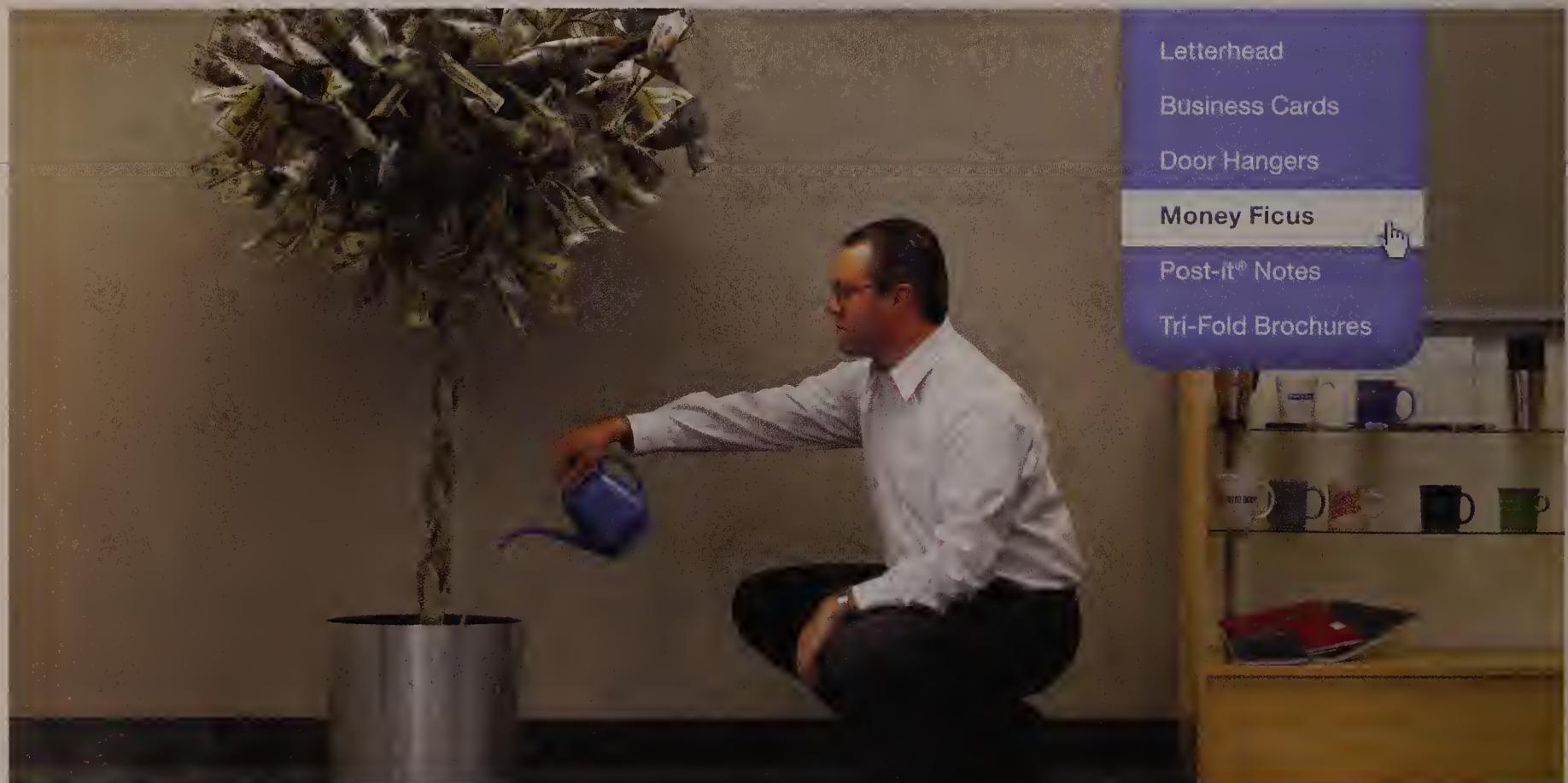
Perplexed by Permissions

Q: I replaced the 500GB internal drive with a 1TB drive in my Mac Pro. I used SuperDuper to copy the disk. Now each time I create a file or folder on the desktop and place it on the hard-drive icon or each time I trash an item, I'm asked to enter my password. I reset the PRAM and repaired permissions to no avail. How can I get rid of that authentication dialog box?

Paul Moortgat

A: This is indeed a permissions issue, but it can't be treated with Disk Utility because Disk Utility's Repair Permissions feature repairs permissions only for files installed by OS X, Software Update, or an Apple software installer. It won't touch your documents, the stuff in your home folder, or third-party applications.

That said, something definitely got mucked up when you copied your files from your old drive to the new one.



Print It, an extremely powerful tool for your company.

Add easy sales to your business mix with full-color web-to-print solutions from Print It. As a Navitor company, we're backed by over 60 years of printing expertise, are the price leader in full-color business cards and offer a full suite of complementary products. The bottom line? Your bottom line. For more information visit printitcenter.com.

print it.

A Navitor company

What I suggest you do is select one of these files, press **⌘-I**, and in the Sharing & Permissions area of the resulting window, see who “owns” the file. If it’s not you but some other entity, there’s your problem. If you change the permissions so that you own the file, you won’t see the warning.

The broader way to deal with this in the traditional manner is to locate the folders that contain your files—Documents, for example—select such a folder, bring up its Info window with the press of **⌘-I**, change permissions so that you’re the owner, and then choose **Apply To Enclosed Items** from the Tools menu at the bottom of the window. That should change the permissions of all the items in the folder to match those you just set.

Except it doesn’t always work. If it doesn’t, give Renaud Boisjoly’s free **BatChmod** (macworld.com/5912) a try. Like the Mac OS, it allows you to change the permissions of any files as

ICON BY PAUL HOWALD

X MAC 101

Hide Preview’s Transparent Layers

Q: In Snow Leopard’s Preview, when I open a PDF that was created with the **Save To PDF** option in the print dialog box of any application, the background is transparent—it shows up as a dark and light gray checkerboard behind the text. This makes the text impossible to read. How can I fix this?



Via the Internet

A: You’re correct. This checkerboard pattern indicates that Preview is displaying a transparent layer. To make it go away, simply uncheck the **Show Document Background** command in the **View** menu. You should now see the document as you’d like, rather than with the distracting pattern.

well as those found enclosed within folders. Unlike the Mac OS, it does the job consistently. Note that you absolutely should not change the permissions of files in the System folder and

the Library folder found at the root level of your hard drive (/System and /Library, respectively). If you do, your Mac may not be able to boot correctly or will behave oddly if it does boot.

SELL YOUR BROKEN MACBOOK FOR CASH!

Spills, Broken Screens, Dead Logic Boards

We pay up to
\$500 or more
CASH!!!



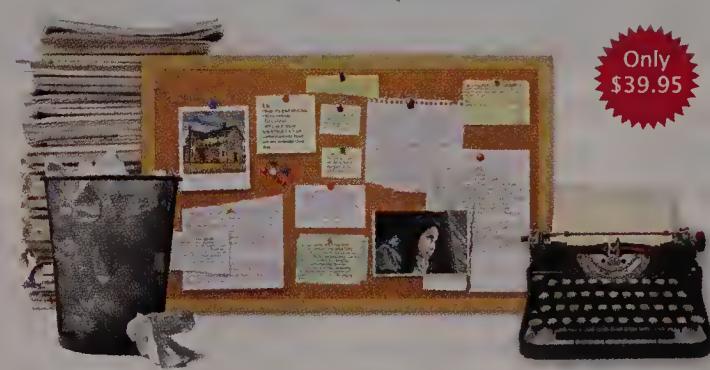
WE BUY IN ANY CONDITION!

GET AN INSTANT CASH QUOTE FOR YOUR BROKEN MACBOOK

NOW AT CASH4MACBOOKS.COM

Scrivener

Outline. Edit. Storyboard. Write.



Only
\$39.95

Scrivener helps you focus on content rather than formatting while you work on the first draft of a novel, script or thesis. Write in bursts as small or large as you like and keep track of it all with Scrivener’s powerful organisational tools.

And with full support for Final Draft 8, Scrivener is the perfect tool for April’s Script Frenzy. Hammer out that frenzied first draft of your script in Scrivener and then export to Final Draft for polishing to industry standards.

“Scrivener has so many useful features, almost too many to list.”
- Mike Sussman, writer-producer, *Sam Raimi’s Legend of the Seeker*,
Star Trek: Voyager, *Enterprise*, *Threshold*



First Draft.



Final Draft.

<http://www.literatureandlatte.com/scrivener.html>

Proud sponsors of Script Frenzy 2010

Free 30-day trial



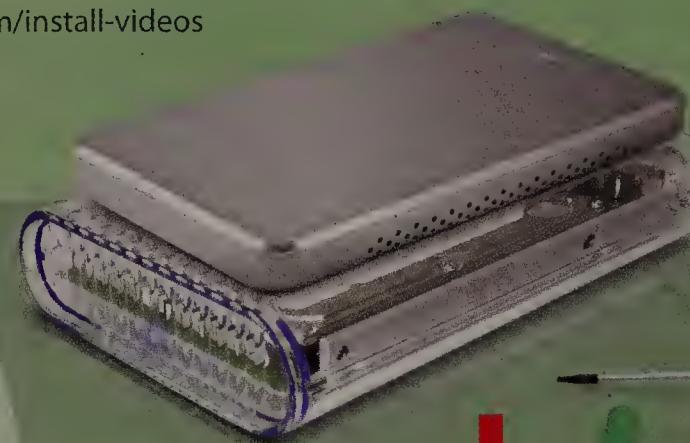
Keep the Earth Clean & Your Wallet Green!

Upgrades for your current Mac® and Apple® products

SPECIAL DIY KITS -TWO UPGRADES IN ONE!

Everything you need to increase your MacBook, MacBook Pro, or Mac mini storage space and use your "old" drive as a NEW external drive. Do It Yourself and save time and money! Kits come complete with drive, enclosure & tool kit plus FREE how-to videos.

www.macsales.com/install-videos

**newer technology****NewerTech® Voyager™ Q** Hard drive not included with Voyager. See below for hard drive bundles. "Quad Interface" SATA I/II Hard Drive Docking Solution. Plug and Play, Hot Swap, and add a new drive at anytime. only \$79.00 Bundles from \$147.99**5400RPM, 7200RPM, & new SSD Kits.**

Kits up to 1.0TB Available! from \$69.99

**Bundled with 2.5" Hard Drive, OWC 5-Piece Memory/HD Tool Kit, and OWC Enclosure.**www.macsales.com/laptopdiy

Why buy from OWC?

We don't just sell it, we tell you how to install and use it.

**24/7
Live Chat
support.**

Your Online Mac Upgrade Center:

Internal Hard Drives

www.macsales.com/harddrive**HITACHI**
PARTNER PROGRAM**SOLID-STATE DRIVE****OWC MERCURY EXTREME ENTERPRISE CLASS SSD**
2.5" Serial-ATA 9.5mm from 50GB to 200GB

50GB OWC 64MB now \$237.99

"It's the fastest SSD I've tested to date...a serious, enterprise-class SSD..." - Bare Feats**DESKTOP DRIVES**HITACHI®, SEAGATE®, & WESTERN DIGITAL®
3.5" Serial ATA, IDE/ATA from 80GB to 2.0TB

500GB Seagate Barracuda 7200.12 now \$59.99

2.0TB Hitachi 7200RPM 32MB now \$179.99

**LAPTOP DRIVES**HITACHI, SEAGATE, TOSHIBA®, & WESTERN DIGITAL
2.5" Serial ATA, IDE/ATA from 120GB to 1.0TBHitachi 5400RPM 500GB \$89.99
1.0TB \$219.99Seagate 7200RPM 500GB \$109.99
320GB \$74.99

School/Corporate Purchase Orders accepted with approved credit.



High Capacity Storage

Available with FireWire 800, FireWire 400, USB 2.0, and/or eSATA
www.macsales.com/firewire**OWC Mercury OTG Pro & Mercury Elite-AL Pro mini****NEW!** Up to 1.0TB of high performance storage with bus-powered, fanless convenience from \$69.99**OWC Mercury Elite-AL Pro**

Up to 2.0TB of ultimate solution for any data storage need from \$74.99

SuperDrive DVD/CD/Blu-ray for Macs

www.macsales.com/superdrives**PLUG AND PLAY INTERNAL AND EXTERNAL SUPERDRIVES**

Up to 22x DVD Burn Speed!



External solutions include the Award-Winning Prosoft Data Backup 3!



External Solutions from \$64.99

Internal Solutions from \$37.99



School/Corporate Purchase Orders accepted with approved credit.

**SPECIAL ADDITIONAL SAVINGS!**

Competitive Pricing + Additional Cash Back!

See offers at www.macsales.com/Rebateswww.macsales.com/warranty

More Memory = Faster Mac

www.macsales.com/memory

Significant Speed Gains: Snow Leopard + OWC Memory!**Apple Mac Pro - Max your RAM Up To 64GB
Memory for the March/2009 'Nehalem' models****Upgrade:**

- 1066MHz
- Quad-Core: 2.66GHz, 2.93GHz, & 3.33GHz
- 8-Core: 2.26GHz, 2.66GHz, & 2.93GHz

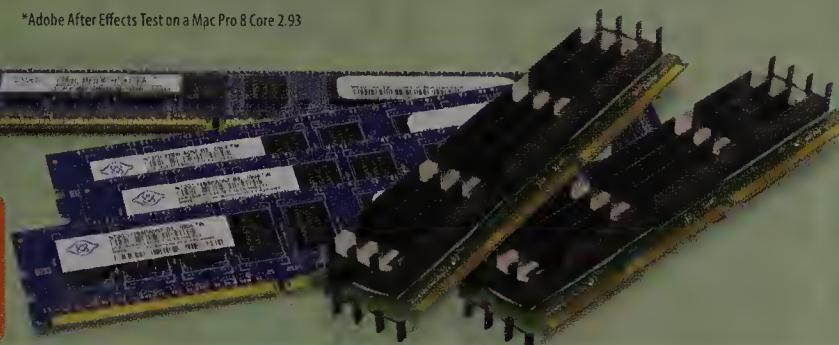
As low as
\$33.12 per GB**Get the right memory for any 2006/2007/2008 model****Upgrade:**

- 667MHz & 800MHz
- Quad-Core, Quad Core x 2 (8-Core)
- all models 2.0GHz, 2.66GHz, 2.8GHz, 3.0GHz, & 3.2GHz

As low as
\$36.87 per GB**Apple Qualified and Fully Matched**

All OWC memory meets or exceeds manufacturer specifications for maximum quality assurance, but at the independent prices you can afford. Plus, you receive the industry-leading Lifetime Advance Replacement Warranty and award-winning US-based customer support.

*Adobe After Effects Test on a Mac Pro 8 Core 2.93



Find what you need to max your Mac's performance in 3 easy clicks with our on-line memory configurator!
www.macsales.com/MyOWC



Expert installation services with fast turnaround.



Free lifetime U.S. based technical support.

Free online "Do-It-Yourself" videos for easy installation.
Check out our new page!
www.macsales.com/installvideosUp to
16.0GB
available!**Memory for iMac®, MacBook®,
MacBook Pro, Mac mini (Intel)**www.macsales.com/memory**Parallels 5****RUN WINDOWS ON A MAC.**www.macsales.com/software~~\$79.99~~
NOW ONLY **\$49.99!****"That's a great deal!"**
- Dave Hamilton, Mac Observer

Cash Back Rebates on your old memory, hard drives, and more!
For details, visit www.macsales.com/money-back-rebate

6.0GB Kits from **\$187.99** 8.0GB Kits for **\$359.97** 16.0GB Kits for **\$709.99**



newertechology www.macsales.com/newertech
NewerTech USB to DVI/HDMI/VGA to Video Display Adapter Solution
MULTIPLE MONITORS INCREASE PRODUCTIVITY AS MUCH AS 50%!
Easily Add Multiple Displays to Macs & PCs
only **\$94.99**

Now Available!
Batteries for MacBook/MacBook Pro!
Plus batteries for all PowerBook and iBook
Up to 74.5% Higher Capacity vs. original Apple factory included battery.
from **\$79.99**
NuPower
High Capacity Notebook Replacement Batteries

OWC IPOD AND IPHONE BATTERY 'TURNKEY' REPLACEMENT SERVICEwww.macsales.com/iphone

Up to 114% higher capacity* in just three to five business days!**

iPod Batteries from **\$14.99**iPod Battery + Service from **\$49.99**iPhone Battery + Service from **\$59.99**

*compared to the Apple factory original battery

**This program is available within continental 48 United States. If you live outside the continental 48 United States, please inquire about shipping charges to your location. Business days are defined as Monday-Friday, excluding national holidays.

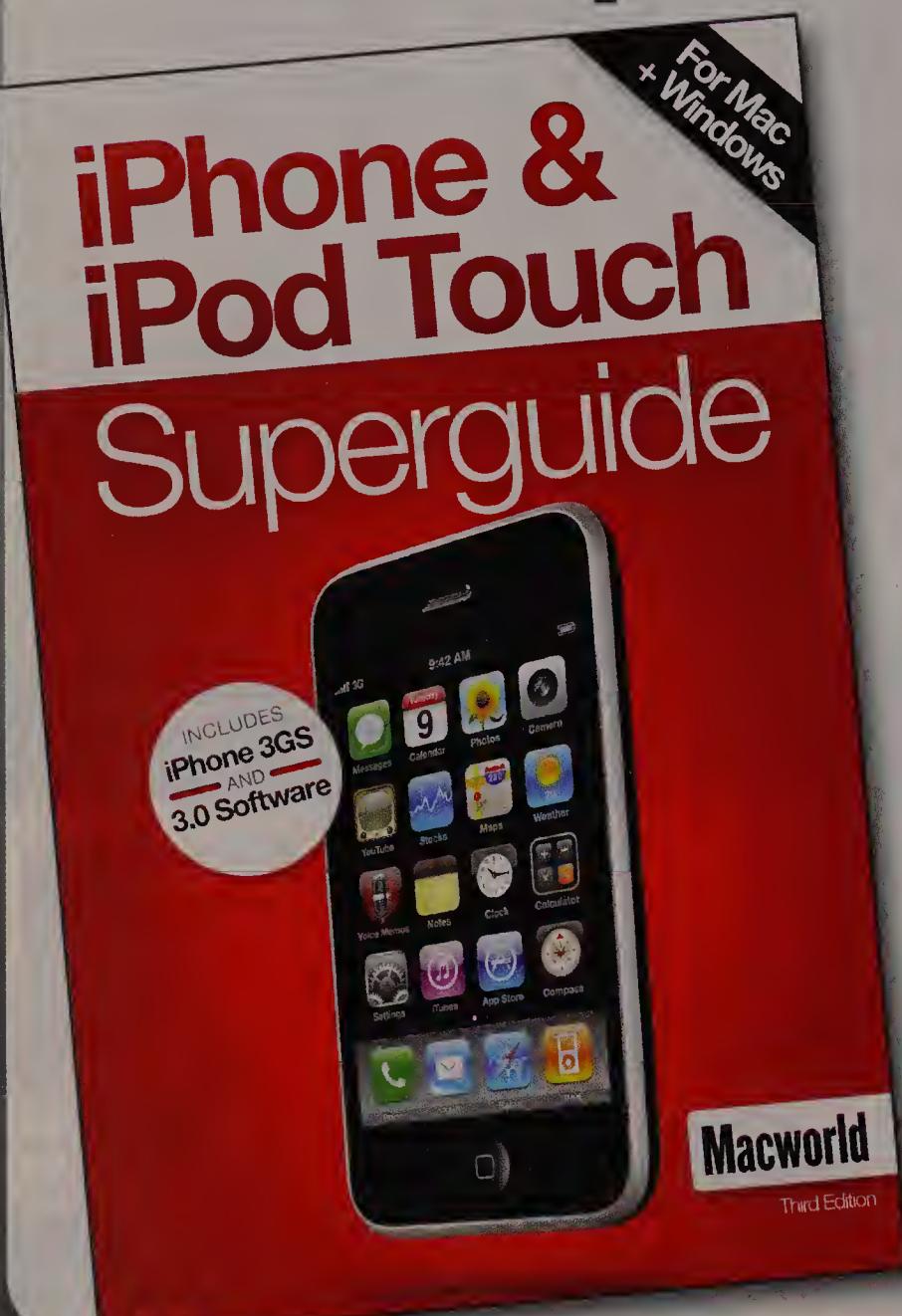
Conservation & Recycling for a greener tomorrow

<http://www.macsales.com/GREEN>**Now 100% 'Green' Powered!**
Green, Sustainable, 100% On-Site Wind Powered<http://www.macsales.com/turbine>

THIRD EDITION
Updated for the iPhone 3GS
and 3.0 software!

NOW AVAILABLE!

iPhone & iPod Touch Superguide



Be an iPhone & iPod Touch Pro

- Quickly master every aspect of your iPhone or iPod Touch
- Save time with clever shortcuts and hidden tricks
- Learn the best ways to sync your data and media—including all types of video files
- Troubleshoot your iPhone or iPod Touch without a trip to the Apple store
- Find the coolest accessories and third-party apps to protect and enhance your iPhone & iPod Touch

Get the most out of your devices with this 172 page e-book.

Staying true to our goal to offer you the most comprehensive coverage of the most innovative and exciting new products, we offer Macworld's iPhone & iPod Touch Superguide - Third Edition. This book is produced by the Macworld staff and is packed with practical how-to's, in-depth features, tips and tricks, and more.

**ORDER
NOW!**

DOWNLOAD INSTANTLY FOR ONLY **\$12.95**

ORDER CD-ROM AND ALWAYS HAVE A BACK-UP FOR ONLY **\$12.95**

www.macworld.com/superguide/iphone3

Macworld Superguides are available in 2 convenient formats:

- Downloadable PDFs: Get immediate access
- PDF on CD-ROM: Order the CD-ROM and always have a back-up

ADVERTISERS INDEX

Interact with the companies whose products and services are advertised in **Macworld**.

ADVERTISER	INTERACT	PAGE NO.	ADVERTISER	INTERACT	PAGE NO.
1&1 Internet	1and1.com	35	Macessity	macessity.com	93
3 Cats and a Mac	3caam.com	93	MacMall	macmall.com	C4
			Megamacs	megamacs.com	95
APC	apc.com	25, 61	Micromat	micromat.com	13
			Navitor	printitcenter.com	86
Beta Macs	betamacs.com	92			
Biomorph Interactive	biomorph.com	92	OtherWorldComputing	macsales.com	C3, 88-89
Booq LLC.	booq.com	11			
Bose	bose.com/qc	21	Parallels	parallels.com/macworld	C2
Buffalo Technology	buffalotech.com	4	Prosoft Engineering	prosoftengineering.com	37, 57
Cash4Macbooks.com	cash4macbooks.com	87			
Cenegenics, LLC.	cenegenics-mw.com	79	Rain Design	raindesigninc.com	92
Creative Juices	bigposters.com	93	Ramjet	ramjet.com	93
Circus Ponies Software, Inc.	circusponies.com/trialmw	17	Readpixel	itunes.com/apps/remotetap	92
Cultured Code	culturedcode.com/macworld	9	Realm	scosche.com	7
			Ripples Group Ltd	ultra-case.com	12
Dekorra Optics, LLC.	eazydraw.com	40	Rosetta Stone	rosettastone.com/ozs050	39
DriveSavers Data Recovery Inc.	drivesavers.com	93			
			Sanho Corporation	hypermac.com	6
ESS Data Recovery	datarecovery.com	94	Santom Ltd. - Dexim	dexim.net	41
			Sell Your Old iPhone	sellyouroldiphone.com	64
IGG Software	ibank3.com	65	Smile On My Mac LLC.	smileonmymac.com/expander	47
Inkfarm.com	inkfarm.com	95	SpectorSoft	SpectorProiswatching.com	51
Insight Cruises	insightcruises.com	67			
			The Neat Company	neatco.com/mw912	55
Journey Educational	journeyed.com	95			
			Wondershare	wondershare.com	3
Literature & Latte	literatureandlatte.com	87			
			Zco	zco.com	64
Mac of All Trades	macofalltrades.com	93	Zoo Printing	zooprintingtrade.com	94



www.raindesigninc.com 1 800 797 7321

rain

intelligent ergonomic desks



biomorph®

biomorph.com - catalog 888 302 DESK

Control OS X from your iPhone!



RemoteTap
www.itunes.com/apps/remotetap



BETA MACS
Affordable Hardware Solutions

Mac Pro Xeon 3.0 \$1899

iBook 1.33 Ghz G4 \$259



Notebook LCD/LED Repair
from \$179

www.betamacs.com
1-877-811-2382

Third Edition
Updated for the iPhone 3GS
and 3.0 software!

Be an iPhone &
iPod Touch Pro

Get the most out of your devices
with this 172 page e-book.



ORDER
NOW!

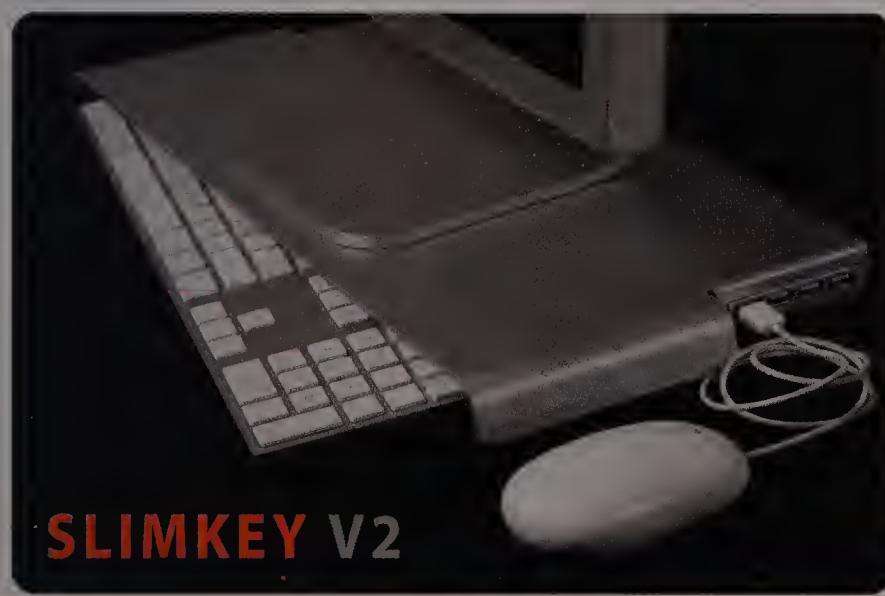
macworld.com/superguide

Macworld Superguides are available in 2 convenient formats for only \$12.95:

- Downloadable PDFs: Get immediate access
- PDF on CD-ROM: Order the CD-ROM and always have a back-up



TRAYSTATION



SLIMKEY V2



We can save it!®

Want proof? www.drivesavers.com 800.440.1904

2009 DriveSaver, Inc. All Rights Reserved. DriveSavers Data Recovery, the DriveSavers logo and "We can save it!" are registered trademarks of DriveSavers, Inc.

Reach the most
influential community
of Mac buyers.

Macworld

MARKETPLACE

Call us today!
415-243-3575
macworld.com

Brilliant
recipe management



A Cook's Books
RECIPE MANAGEMENT

Try the demo:
www.3caam.com

Superior Quality Mac Memory



Same Day Shipping

1-800-831-4569

Mon-Fri 9am-6pmCST

Memory Upgrades

iMac Intel DDR3



4GB - \$112.99
8GB - \$359.99
16GB - \$719.99

Mac Pro DDR3



4GB - \$135.99
8GB - \$265.99
16GB - \$529.99
32GB - \$1399.99

MacBook DDR3



4GB - \$112.99
6GB - \$249.99
8GB - \$359.99

MacBook Pro DDR3



4GB - \$112.99
6GB - \$249.99
8GB - \$359.99

Firewire Hard Drives



500G - \$125.99
750G - \$155.99
1TB - \$175.99
2TB - \$275.99

Internal SATA Drives



500G - \$58.99
750G - \$74.99
1TB - \$99.99
2TB - \$179.99

Speak to a
Memory Expert

Secure Online Ordering at

WWW.RAMJET.COM

Prices subject to change without notice



Professional, Fast, Dependable

Mac of All Trades

Your solution for buying and selling used Macs

Serving Individual And
Volume Buyers And Sellers

Volume Discounts Available

Apple Certified & Trained
Technicians On Staff

www.macofalltrades.com
Serving the Apple® community since 1995



BIG COLOR POSTERS | BANNERS | CANVAS | MOUNTING | LAMINATION

BIGPOSTERS.com

at HUGE DISCOUNTS

2' x 3'
Color
Poster

\$25

18" x 24"
Archival
Canvas

\$24

SPECIAL OFFER
RETRACTABLE BANNER STAND

\$125
Retails for over \$350
33" x 78" Banner Stand
Includes Graphic & Nylon Case

Use Promotion code: MACWORLD

Sizes up to 60"x100ft | High Resolution | Color Accurate
Various media: Paper, Canvas, Vinyl, Fabric, Backlit & more

888-880-HUGE

Creative Juices Printing & Graphics | 96 Gazza Blvd Farmingdale | NY 11735 | tel. 631.249.2211 | www.bigposters.com

No Minimums | No Voicemail - We Answer our Phones 9am-5pm | Fast Turnaround

RETRACTABLE BANNERS
GRAPHICS THAT JUMP OUT



Get your PRINTING Branded Website

Today!



4 Color

1 & 2 Color

Large Format

Roll Labels

Estimate

Help Center

New Account

2 Locations CA/KY

What your business needs NOW for Image, Growth & Profit!

Image - Remember, image is everything. You must have a strong, seamless web-to-print solution to be competitive in today's market.

Growth - Attract new business with your new online presence. Expand your local and national clientbase.

Profit - Maximize your income by becoming more efficient. Saving money is making money.

For more information about Branded Website Visit us at: www.zooprinting.com/website

1000 BUSINESS CARDS
14pt. 4/4 w/ UV1 or UV2 **\$9.94**
2-3 Day Turnaround

1000 4x6 POSTCARDS
14pt. 4/4 w/ UV1 or UV2 **\$30**
2-3 Day Turnaround

1000 8.5x11 BROCHURES
100# Gloss Book 4/4 with AQ **\$87**
Folding Additional
2-3 Day Turnaround

VINYL BANNERS
Starting At: **\$1.50** SQ FT
As Low As: **95¢** SQ FT

ROLL LABELS
• Low Pricing
• Multiple Shapes and Sizes
• Gloss or Matte Lamination
• Indoor and Outdoor Use
• Digital Quality
• Short Run Available

1&2 COLOR
• Brochures / Flyers
• Business Cards
• Envelopes
• Letterheads
• NCR Forms
• Note Pads
• Small Flyers

Must Qualify as a Trade Printer To Receive These Prices.

Come See Us at Graph Expo 2010 ~ Chicago, Oct. 3 - 6th ~ Booth #4456



FAST. RELIABLE. SECURE.

Data recovery from
all hard drives, all platforms...

- DOD-Level Security
- Superior, 24/7 Service
- Confidentiality Guaranteed
- Affordable, Up-front Pricing (no hidden charges)
- High Recovery Success
- Class-100 Clean Room Lab Standards
- Patent-Pending Recovery Technology
- Complete Computer Forensic Services

ESS DATA RECOVERY LABS
www.datarecovery.com
800.237.4200

110 N. Research Drive, Edwardsville, Illinois | 1241 Quarry Lane, Pleasanton, California
6043 Hudson Road, Woodbury, Minnesota

THIRD EDITION
Updated for the iPhone 3GS and 3.0 software!

Be an iPhone & iPod Touch Pro

- Quickly master every aspect of your iPhone or iPod Touch
- Save time with clever shortcuts and hidden tricks
- Learn the best ways to sync your data and media—including all types of video files
- Troubleshoot your iPhone or iPod Touch without a trip to the Apple store
- Find the coolest accessories and third-party apps to protect and enhance your iPhone & iPod Touch



ORDER NOW!

Get the most out of your devices with this 172 page e-book for only \$12.95.

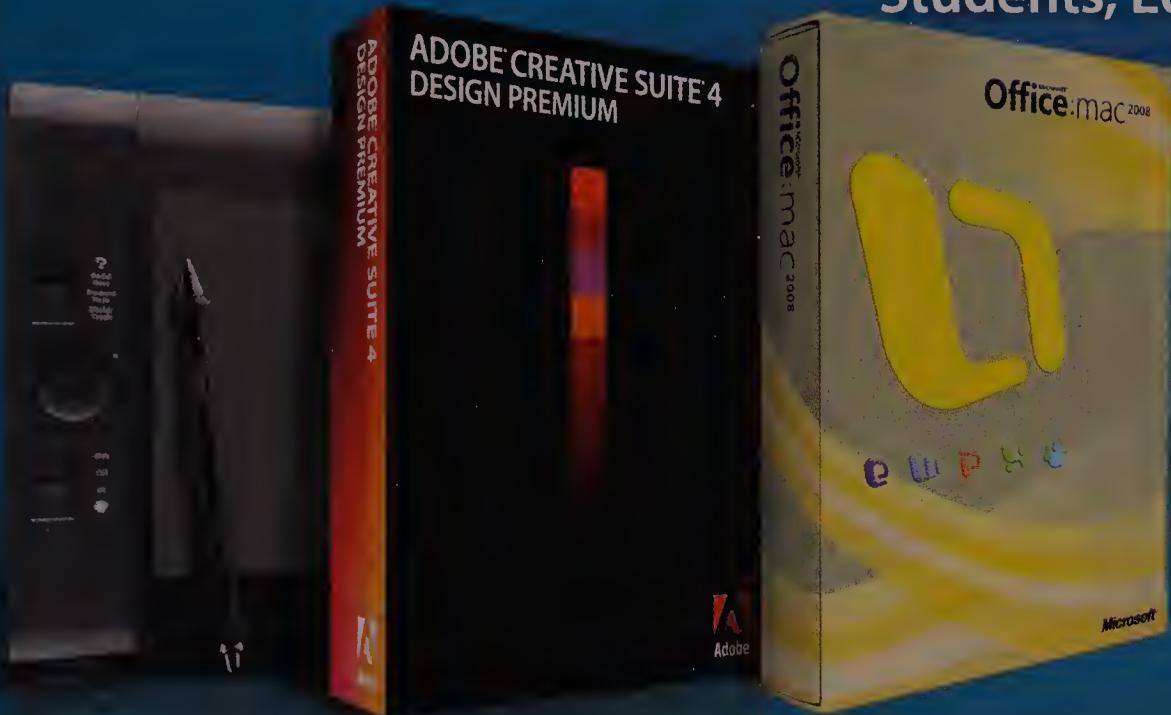
macworld.com/superguide

Macworld Superguides are available in 2 convenient formats:

- Downloadable PDFs: Get immediate access
- PDF on CD-ROM: Order the CD-ROM and always have a back-up

Save up to 85% Off Retail

Students, Educators and Schools



Wacom Intuos4 Medium Tablet **MSRP \$421.93 | Save \$112 | \$309.00**
 Adobe Creative Suite 4 Design Premium Student Edition **MSRP \$1,799 | Save \$1,400 | \$399.98**
 Mac & Win #36972106N

Microsoft Office for Mac 2008

As low as **\$84.98**
 See if you qualify at www.JourneyEd.com/shwap

\$10 Off your order

of \$99 or more!

Use **Promo Code 225068**
 when placing your order.

Hurry, this offer ends 05/31/10.

Prices are subject to change.

www.JourneyEd.com/mwmy | 1-877-652-2187

journeyEd
 .com

NEW LOW PRICE!

\$6.99 (Wow!)
 Qty 3+
 Qty 2: \$7.99
 Qty 1: \$8.99
 Remanufactured HP 51645a
 (No. 45) ink cartridge.

More great deals at...
1-800-INKFARM
inkfarm.com
 the ink & toner supersite.™

SeafoodByNet.com

Fresh from the sea to your doorstep!
 The best in FRESH, hand selected seafood and
 Certified Aged Angus Beef. Call 815.337.4028
 or visit www.SeafoodByNet.com to order.



Sign up
 for our FREE
 Fresh Club Newsletter
 for latest DEALS on your favorites!

MEGA MACS
 .com
 Your Source for MegaMac Deals since 1995

918-664-6342

We buy excess
 stock and used
 Macs!

	Apple	MegaMacs	Save
Snow Leopard Server	\$499	\$349	\$150
Aperture 3	\$199	\$169	\$30
FileMaker Pro 10 Adv	\$499	\$359	\$140
Final Cut Express 4.0	\$199	\$149	\$50
Final Cut Studio 3 Full/Upg	\$999/299	\$799/269	\$200/30
iLife '09 OEM Single/Fam	\$79/99	\$37/69	\$42/30
iWork '09 OEM Single/Fam	\$79/99	\$44/69	\$35/30
Logic Express 9 Full/Upg	\$199/99	\$154/84	\$45/15
MobileMe Single/Fam	\$99/149	\$69/99	\$30/50
Dual-Channel 4Gb Fibre PCIe	\$599	\$419	\$180
Office: Mac 2008 Bus/Home	\$399/149	\$229/\$119	\$170/30
Adobe Acrobat 9 Pro	\$449	\$124	\$325
SoftPress Freeway 5 Pro	\$299	\$199	\$100
MYOB AccountEdge 2009	\$299	\$189	\$110
MYOB Checkout Point of Sale	\$399	\$189	\$210
Legacy Itms Used Macs	Jawbone Prime	\$129	\$45
	Apple In-Ear Headphones	\$79	\$10
	Etymotic HF2	\$179	\$50
	20" iMac - 2.4GHz (Alum.)	-	\$799^
Legacy Itms Used Macs	20" iMac - 2.0GHz (Alum.)	-	\$749^
	17" iMac - 1.83GHz Intel	-	\$449^
	17" iMac - 2.0GHz G5	-	\$379^
	MacBook Pro - 2.16GHz	-	\$849^
	PowerMac G5 - Dual 2.3GHz	-	\$569^
	Logic Express 8 Full/Upg	-	\$169/59
	ATI Radeon X1900 XT MP	-	\$369
	NVidia 6600LE Mac Pro	-	\$159
	Radeon 9600 PowerMac G5	-	\$199
	Airport Extreme Mac Pro	-	\$39
	Bluetooth Keyboard (Plastic)	-	\$69
	Bluetooth Mighty Mouse	-	\$59

Mac OS X 10.5 Sngl/Fam: \$229/259	AppleCare	MacBook/MB Pro Magsafe Adapt: \$49^	We fix iPhones! 1-day turn around! 3G/3GS Screen replacement \$99
10.4 Serv: \$239	IMac \$124	Drive Genius \$59	
	Mac Mini \$129		

Prices rounded down, subject to change. ^=Prsowned

Expo without Apple

Can the Mac world's signature event survive without its core vendor?

Too bad this will be the last year for the show, isn't it?"

I heard that pretty often in the 15 or 20 minutes it took me to register for this year's Macworld Expo. It was the day before the show, and I'd already bumped into several people I knew. (I'd been bumping into some of them at Expos for a decade or more.)

The doors hadn't even opened. Was this really the appropriate time to foretell the end of a signature event on the Mac calendar, a show nearly as old as the Mac itself? Of course not. I was determined not to say it myself until the second day of the show at the very earliest. There's such a thing as decorum.

Who Are We?

There was good reason for the gloom: 2010 was the first year in which Apple had no presence at the show. It was hard to imagine how Expo could effectively continue without the company.

But when I returned for the first day of the show, I was thrilled to be wrong. Before I even made it into the main hall, I was overhearing complaints about how crowded the show floor was. For all intents and purposes, it was just another Expo. Sure, it was smaller and lacked the buzz of a day-one Steve Jobs keynote. But otherwise, there was plenty of energy and plenty to see and do.

If anything, the success of this year's Expo underscored Apple's new position in the consumer electronics industry. In the past, Macworld Expo revealed how provincial the Mac community was. When the show was at its largest, the Mac market was a small, remote island. It was "our" show.

But who are we today? Are we just the community of people who use the Mac OS? (Industry studies encourage me to think of that community as consisting of three distinct tribes: those who use MacBooks, those who use iMacs, and

those who use Mac Pros.) And what about the communities of people who use the iPod, the iPhone, and the iPad?

Tale of Two Conventions

As I pondered this at Expo, two very different conventions came to mind.

The first is the San Diego Comic-Con, the largest such conference in the country. It might have served a single community back in the seventies. But by the time I first attended, it had grown much too large. To manage the show now, you need to focus on just one or two interests. If you want only to buy old comics, you can do that. If you want to attend panel discussions about your favorite TV shows, you'll leave happy. But if you try to take in the entire show, you'll need to be wheeled out feetfirst by day three.

At the other end of the spectrum is a tiny Star Trek convention I attended a few years ago. Carol Cleveland (from the old Monty Python TV series) was one of the guests, and I needed her signature to complete my collection of

If Macworld Expo is to continue, it needs to expand, extend, and embrace.



Python autographs. So I made the two-hour drive to a dumpy little hotel in western Massachusetts.

I never felt so out of place in my life. The attendees somehow sensed that I wasn't a real Trek fan. I was picking up a pretty intense vibe of "What the hell is this guy doing here?"—and it wasn't just the normal vibe of exclusion that I usually inspire from the Humans.

The point being that most big communities evolve toward one of two ends. Either they expand, extend, and embrace, or they become increasingly insular, clubby, and irrelevant.

Which is why I was greatly cheered by what I saw at Expo 2010. Apple long exerted control over Expo—a show it neither owned nor ran. Now, without Apple, Expo is free to control its own content and its own future.

Take, for example, the final featured presentation at this year's show, a standing-room-only panel discussion (including yours truly) about the iPad, in which we debated the forthcoming tablet's strengths, weaknesses, and future. Apple is obsessive about controlling its message, particularly about unreleased products. That sort of presentation likely wouldn't have taken place if Apple still had any sort of leverage over the show.

If Macworld Expo is to continue, it needs to expand, extend, and embrace, as Comic-Con did. Without Apple, it has the freedom to do so. It's even possible that Apple's break from it was necessary for the show's continued survival. Otherwise, future Expos could consist of five to six hundred of us shuffling around a dank wing of a Ramada Inn in Bakersfield with silly bits of foam rubber glued to our foreheads.

Andy Ihnatko is a longtime *Macworld* contributor and the tech columnist for the *Chicago Sun-Times*.



15 Minutes Or Less to a Faster Mac® in 3 Easy Steps!*

- 1) Use MyOWC to determine what model you have.
www.macsales.com/myowc
- 2) Select the compatible memory and storage option to MAX your Mac's performance.
- 3) Watch our Free Installation Videos to Do-It-Yourself instead of paying a technician!
www.macsales.com/installvideos.

Take your memory to the MAX!

How much memory can your Mac handle? www.macsales.com/maxram

Mac Pro 8-core Memory
MAX up to 64GB
\$36.87 per GB

MacBook® Pro Memory
MAX up to 8.0GB
\$24.50 per GB

**Cut Your
Waiting Time by
up to 70%!**

Boot Your OS & Apps
Faster then ever!



**Time to cold boot OS X and load six applications within Adobe CS4.

- OWC Mercury Extreme Enterprise SSD 30.19 seconds!
- 7200RPM 2.5" Standard HDD 70 seconds.
- 5400RPM 2.5" Standard HDD 104 seconds.

*Smaller
is Better!*

OWC FREE Install Videos

OWC's free, step-by-step detailed installation videos show you how easy it is to install memory, hard drives, and optical drives in your Mac!



*Typical install time for each upgrade type is approximately 15 minutes. Time may vary based on specific machine and user skills.

**What you need
for the job!**



newer technology®

11 Piece Portable Toolkit
Only **\$17.95**



Memory Solutions
from **\$14.99**



HD Solutions
from **\$22.97**



Optical Solutions
from **\$59.00**

Visit: www.macsales.com

Call: 800.275.4576 | 815.338.8658



School/Corporate Purchase Orders accepted with approved credit.

Amp Up Your Stuff!™

Crank up your savings! Max out your Mac!

No Payments for 6 Months!

*On orders over \$250.
Subject to credit approval.
Call for details.



MacBook

"I shop at MacMall and have for years because they are reliable, have informed customer service reps and are not nit-pickers if you have a problem. They want to make you happy!"

--posted to NexTag

 Authorized Reseller



13.3" MacBook®
FREE Parallels Desktop!*

stating at **\$994!**
#7949684



21.5" Apple® iMac®
FREE Parallels Desktop!*

stating at **\$1194!**
#7946948



15.4" MacBook Pro
FREE Parallels Desktop!*

stating at **\$1694!**
#7836993



Adobe® Photoshop CS4
for Mac

only **\$666.99!** #7664475



SAVE \$47!

Microsoft Office 2008
for Mac Business Edition

list price \$399.99
\$352.99! #7910576

MacMall

Your #1 Apple Superstore!

Call 1-800-321-7532 or visit macmall.com

6 Months Same as Cash! FREE Parallels Desktop!***

*FREE PARALLELS DESKTOP OFFER-Get Parallels Desktop 4.0 for Mac free after \$20 mfr. and \$60 MacMall mail-in rebates with purchase of any new Apple computer. Price before rebates is \$80. Ends 7/31/10.
**ALL OFFERS VALID WHILE SUPPLIES LAST. Download rebate coupons at www.macmall.com/rebates. For rebate terms and conditions, please visit our Web site and enter the applicable part number.

Although we do our best to achieve 100% accuracy, occasionally errors and inaccuracies do occur. Should you encounter an error or inaccuracy, please inform us so it can be corrected.

Source code: MACWORLD